



Residence—Rev. E. O. Tree, Freeport, L. I., N. Y.
Bishopric used on all exteriors or interiors

Before You Build

Make sure that the material that goes into your house will give you the greatest possible return in comfort and satisfaction.



Res.—W. H. Brooks, Sect'y. Standard Fuel & Material Co., Birmingham, Ala. Archt.—Harry B. Wheelock—Birmingham, Ala. Bishopric used on all exteriors or interiors

BISHOPRIC STUCCO OVER BISHOPRIC BASE

Provides a unit wall

For all Time and Clime

A Bishopric Stucco Home Means

- (a) Least Cost for Labor.
- (b) Least Cost for Material.
- (c) Speed of Construction.
- (d) Strength, Stability, Endurance.
- (e) Living comfort, Winter and Summer.
- (f) Lowest Maintenance Cost.



Residence—1839 Farrington Rd., E. Cleveland, O.
Owners, Arc'ts and Bldrs.—The Joseph Larong Co.
Bishopric used on all exteriors or interiors



Residence—S. H. Morgan, Detroit, Mich. Architect
—Wm. C. Palmer. Contractor—R. M. Rutherford.
Bishopric used on all exteriors or interiors

We have prepared "Bishopric For All Time and Clime," an interesting booklet for you, illustrated with photographs of beautiful houses built with Bishopric stucco, plaster and sheathing units. Write for it.

Sold by Dealers Everywhere

The Bishopric Manufacturing Co.
597 Este Avenue, Cincinnati, Ohio.

New York City Office: 2848 Grand Central Terminal. Factories: Cincinnati, O., Ottawa, Canada

The Right of Way to Tire Leadership

A year or so ago, the American public placed the leadership of the tire business in the hands of the men who make U. S. Royal Cords



THE first Royal Cord Tires were made and sold in 1916.

No cut-and-dried story could possibly account for their position of command today—earned in a short six years.

It mostly comes down to the car-owner as an out and out human being. Forget him as a mere tire customer and consider him as a *personality*. With an *inborn instinct for quality*. With a pride in demonstrating his *quality beliefs*.

How many tire manufacturers, would you say, have even guessed that American car-owners were shifting so fast to better tires?

* * *

Certainly U. S. Royal Cords have proven this fundamental thing—

For every low-grade tire made there is arising some motorist with a fine, human indifference for it.

He and his kind have become out and out loyalists of Royal Cord Tires—as representing the highest expression of their demands.

The makers of United States Tires urge upon everybody—manufacturer and dealer alike—a new kind of competition.

Let us compete for more and more public confidence.

Let us compete for higher and higher quality.

Let us compete for still more dependable public service.

**United States Tires
are Good Tires**

Copyright
1922
U.S. Tire Co.

Multiply this man by a million or more. Then sit down and weigh his tremendous deciding influence.

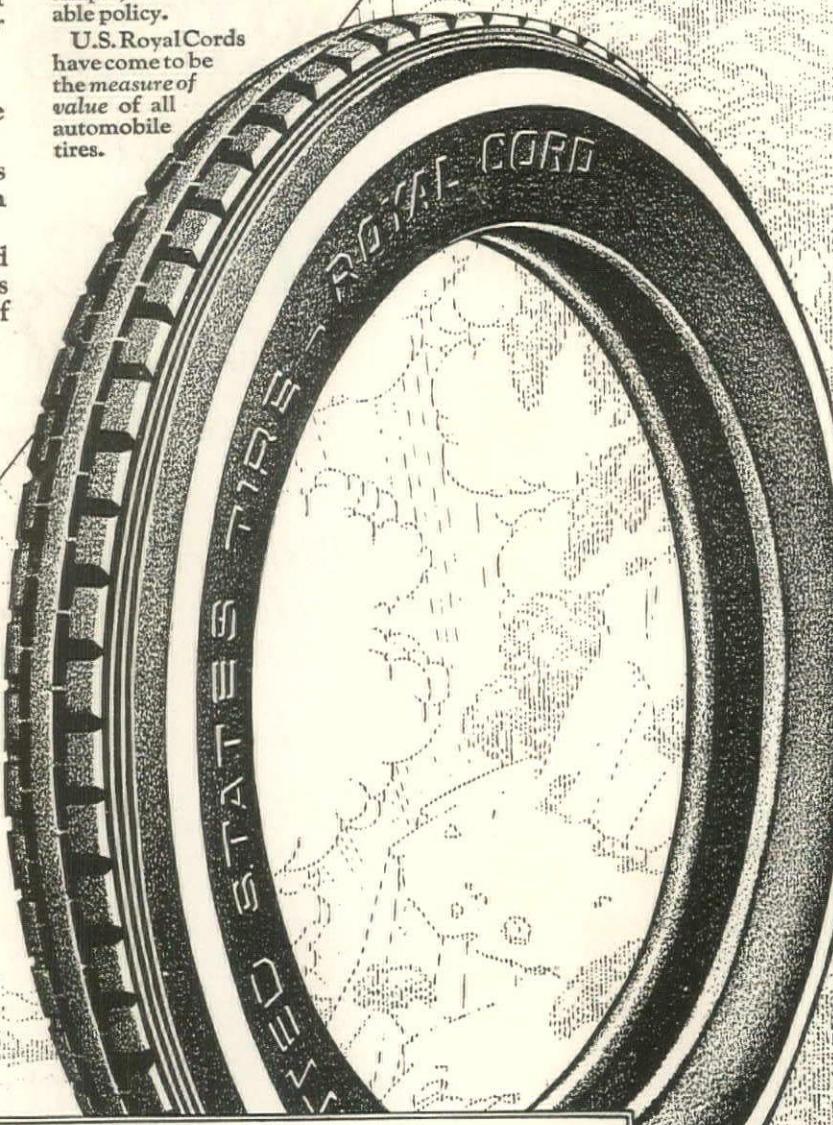
* * *

Today, for the production of U.S. Tires, there is erected and operating the largest group of tire factories in the world.

The men who make Royal Cords are quality workers and quality merchandisers.

Their spirit of leadership is the spirit of constancy—faithfulness—a simple, understandable policy.

U.S. Royal Cords have come to be the measure of value of all automobile tires.



U. S. Royal Cord Tires

United States  Rubber Company

Fifty-three
Factories

The Oldest and Largest
Rubber Organization in the World

Two-hundred and
thirty-five branches



Studebaker

BIG-SIX

In the BIG-SIX you find the charm of perfect line and innate good taste. In its hidden goodness a sturdy power and riding ease that satisfy every demand of motor car performance.

It is built with an underlying strength that will endure for years and years of rugged use.

Traditions of seventy years of manufacturing goodness explain why Studebaker is the world's largest builder of six-cylinder cars.

7-passenger; 126-inch wheelbase; 60-H. P. detachable-head motor; intermediate transmission.

Big-Six Touring Car, seven-passenger.....	\$1785
Big-Six Coupe, four-passenger.....	2500
Big-Six Sedan, seven-passenger	2700
<i>f. o. b. factory</i>	

THE STUDEBAKER CORPORATION OF AMERICA
Detroit, Mich. SOUTH BEND, IND. Walkerville, Ont.

*World's Largest Builder of
Six-Cylinder Cars*



THIS IS A STUDEBAKER YEAR



Time to Re-tire?

(Buy Fisk)

TRADE MARK REG. U. S. PAT. OFF.



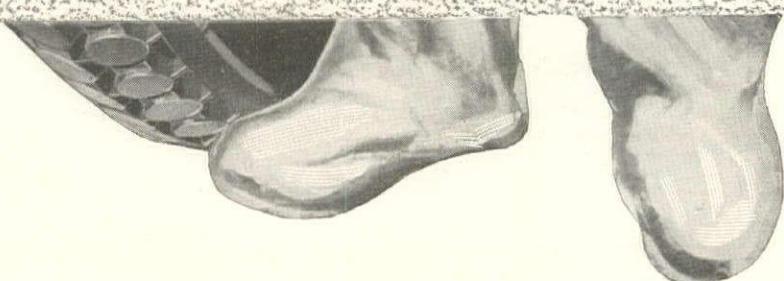
There's Extra Value in Fisk Tires

THE only time a lower price is a real inducement to a wise buyer is when comparison proves the price to give a greater purchasing power to his dollar — when he can buy

more for less. Because Fisk Cord Tires show contrasting values in size, strength, resiliency and appearance when compared with any other tires, the price is interesting.

30 x 3½	—Fisk Premier Tread	...	...	\$10.85
30 x 3½	—Non-Skid Fabric	...	...	14.85
30 x 3½	—Extra-Ply Red-Top	...	...	17.85
30 x 3½	—Six-Ply Non-Skid Clincher Cord	...	...	17.85
30 x 3½	—Six-Ply Non-Skid Cord Straight Side	...	...	19.85
31 x 4	—Six-Ply Non-Skid Cord	...	...	27.00
32 x 4	—Non-Skid Cord	...	...	30.50
32 x 4½	—Non-Skid Cord	...	...	39.00
34 x 4½	—Non-Skid Cord	...	...	41.00
35 x 5	—Non-Skid Cord	...	...	51.50

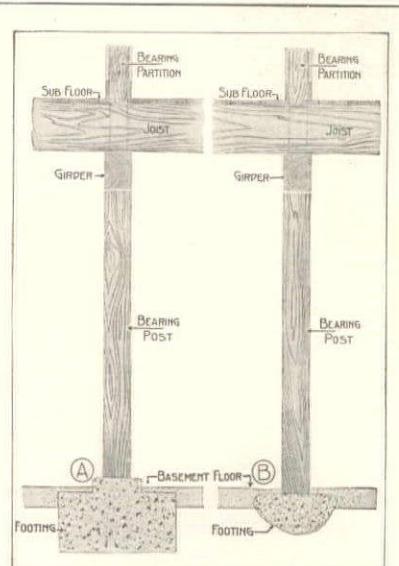
There's a Fisk Tire of extra value in every size for car, truck or speed wagon





NEW ENGLAND COLONIAL STYLE

Illustrating the symmetry and stateliness of New England town houses of the period when Colonial architecture was at its height. This is another of the 17 architectural styles illustrated and discussed in "Good Houses," a book for home-builders interested in good design, efficient planning and thorough construction. "Good Houses" interprets those architectural styles which are the foundation of American building traditions, and which are adaptable to wood construction today. Send for your copy today.



Illustrating Good and Bad Bearing Post Footings

IF bearing posts under the girders in the basement of a house settle unduly the effect is apparent throughout the house. Cracks appear on plastered walls; doors become troublesome; floors become uneven. The bearing posts support a considerable amount of the weight of the house. Obviously they must be well supported or "rooted."

The footing shown on the right is too small in all its dimensions and is limited in its bearing power by its shape as well. Note how the post is set down into the concrete, a material which is always somewhat damp, thus needlessly subjecting the post to decay.

The greater sustaining power of the footing on the left is evident at a glance. Note its generous dimensions, its flat bearing surface, and note, too, how it extends above the cellar floor line, thus keeping the bearing post off the damp floor.

The success of concrete footings is dependent, too, upon the use of good materials in the right proportions, properly mixed.

Bearing post footings are just one of the many vital points in successful house building discussed in the booklet—"The High Cost of Cheap Construction," sent free on request to prospective home-builders.

What Will You Say About Your New Home Three Years From Now?

ASK any one of the better class of building contractors why so many people are dissatisfied with their houses a few years after they are built. He will tell you poor construction.

Constant repair bills, excessive heating costs and the endless annoyances that so often rob home-owners of the satisfaction they are entitled to, are the results of construction short cuts—mistaken for economy—behind plastered walls, beneath the floors and even under the very foundations of many houses that are being built today of all materials.

Yet at no greater cost than the prices that are being paid for compromise houses, the application of the right principles of building construction can make your house a substantial, economical, satisfactory home.

THE key to successful house building lies in right materials properly applied.

Lumber for house building is of the same good quality as ever. Developments in manufacture are constantly improving it.

Good workmen and the better class of contractors still want to do an honest job; in fact they have been preaching the value of right construction in house building for years.

But conditions, largely beyond their control, today are forcing legitimate contractors—

the men who know good materials and how to use them, who understand fire-stopping and other modern construction practices, and who see house construction in terms of durability and efficiency—to bid against construction practices that every honest craftsman condemns.

That is why we say, go to a legitimate contractor—one who takes pride in his craft and would rather deliver a good job at a fair profit than a poor job at an unfair profit.

You will find these men more and more using lumber of the Weyerhaeuser standard of quality—trademarked with the manufacturer's pledge of personal responsibility.

IN "The High Cost of Cheap Construction," a book which will be mailed you on request, you will find the essentials of good construction necessary to successful house building; the basis for judging the manner in which your house is built; and the means of making the lumber you use in the construction of your house of even greater service. Ask also for "Good Houses."

Weyerhaeuser Forest Products are distributed through the established trade channels (to contractors and home builders through the retail lumber yards) by the Weyerhaeuser Sales Company, Spokane, Washington, with branch offices and representatives throughout the country.

EACH year you will find an increasing number of retail lumber dealers recommending Weyerhaeuser lumber for house building—men who know the relation to correct building practice of properly dried lumber, of uniform grades and of the kinds best suited to your needs.



WEYERHAEUSER FOREST PRODUCTS SAINT PAUL • MINNESOTA

Producers of Douglas Fir, Pacific Coast Hemlock, Washington Red Cedar and Cedar Shingles on the Pacific Coast; Idaho White Pine, Western Soft Pine, Red Fir and Larch in the Inland Empire; Northern White Pine and Norway Pine in the Lake States





The Hiawatha

Yours— this beautiful home

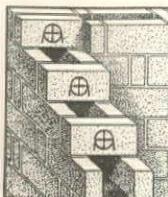
YOU can now secure complete plans and specifications for this remarkable Brick home—declared by experts to be the finest of its class in America.

This home will appeal to all because it is not only unusually artistic, but also thoroughly practical and most economical—as discussed in the adjacent column.

Send for free circular No. 705 showing alternate floor plans and giving complete details.

THE COMMON BRICK INDUSTRY OF AMERICA
1303 SCHOFIELD BUILDING, CLEVELAND, OHIO

The Ideal Brick Hollow Wall is made of standard brick obtainable everywhere



Ideal Brick Hollow Wall

"Brick Homes at the Cost of Frame"

Beautiful Home Available to You

This home was designed for a private owner by one of the best residence architects in America.

Sometime ago we published a view of it in one of our books and it attracted so much favorable attention that we had hundreds of requests from all over the country for details and plans.

At last we have prevailed upon the architect to grant us the right of supplying complete working drawings and specifications. These working drawings are unusually complete and contain many full size details which make them exceptionally valuable and different from the ordinary.

You will find in our free circular No. 705 an interesting description of this beautiful home, as well as much vital information about costs and construction. The circular shows front and rear views, as well as two interior views completely furnished. It also gives alternate floor plans from which you can choose.

Hiawatha's Cost Within Your Reach

This home can be built of Brick (solid masonry) for as low as from \$9,000 to \$13,000, depending upon location and the character of equipment and finish.

Any good contractor after seeing the plans in circular No. 705 should be able to give you an estimate of its cost in your community. With the complete plans—working drawings—and specifications which are yours at nominal cost, he can tell you exactly what he will charge to build this home for you.

Costs Even Less With Ideal Wall

When this home was first built, the Ideal Brick Hollow Wall was unknown. Its recent development makes possible the building of this Brick home for even less than the above figures. With the Ideal Wall you obtain all the advantages of solid masonry construction at a saving of $\frac{1}{3}$ in cost.

The Ideal Wall is thoroughly described in "Brick, How to Build and Estimate"—a 72-page manual of vital information for those planning to build and for contractors. Only 25 cents postpaid.

The Hiawatha is one of a wide variety of Brick house designs shown in that fascinating volume, "Brick for the Average Man's Home". Every one of these designs is by a competent architect. Here you will find all kinds of homes illustrated and described, together with much helpful information. The nominal price of \$1.00 is to cover printing and distribution costs only.

\$1.25 brings both books. Address The Common Brick Industry of America, 1303 Schofield Building, Cleveland, Ohio.

Good Buildings Deserve Good Hardware



The Corbin Unit Lock with the keyhole in the Knob is Good Hardware

WITH the Corbin Unit Lock on your front door, there is no more groping in the dark—no more guessing at the probable distance of the keyhole from the knob. As you grasp the knob the keyhole comes to meet you. It is where it should be—in the exact centre of the knob.

There is no better lock for an outside door of a residence than the Corbin Unit Lock. It is Good Hardware. The first ones made have been in service for more than twenty years and show no signs of wearing out.

The Corbin Unit Lock is, as the name im-

plies, a complete unit. Lock, screwless knobs and escutcheons leave the factory in one assembly, a single unit, ready to be applied to the door. It can be master-keyed.

When you build, don't overlook the security, the simplicity, the strength, the beauty, the smooth, dependable action and unequalled convenience of the Corbin Unit Lock. The host of friends this lock has won is evidence of a growing appreciation of the idea that good buildings deserve good hardware.

Write for literature describing the Corbin Unit Lock "with the keyhole in the knob". Your architect and local Corbin dealer will help you select appropriate designs.

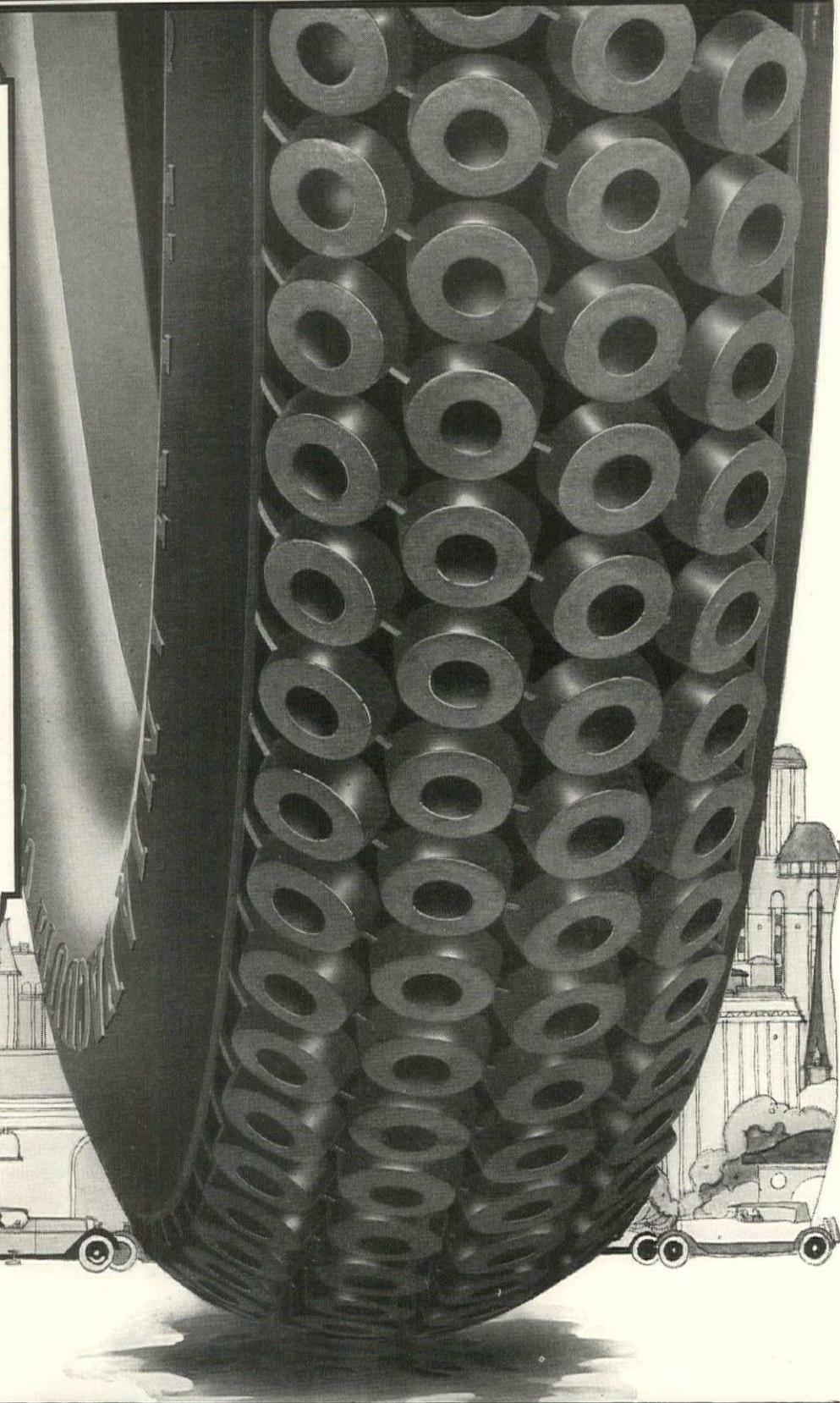
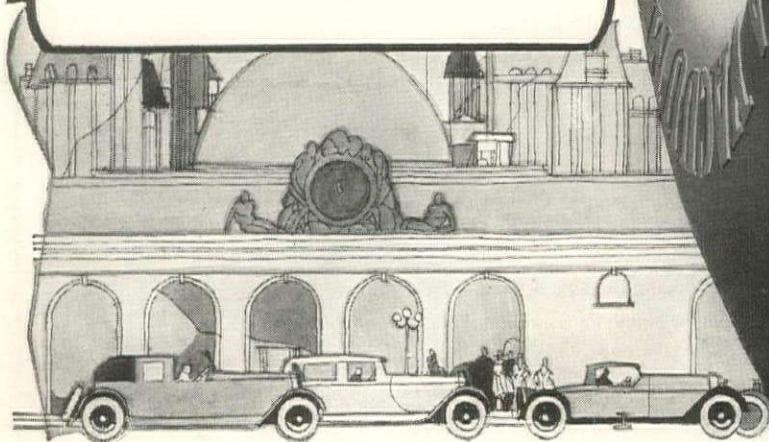
P. & F. CORBIN SINCE 1849 NEW BRITAIN, CONNECTICUT
The American Hardware Corporation, Successor
NEW YORK CHICAGO PHILADELPHIA

Pennsylvania VACUUM CUP CORD TIRES

NOW cost no more than ORDINARY makes, though they give the utmost in mileage and safety. Get the latest price schedule from your dealer — you will be agreeably surprised.

PENNSYLVANIA RUBBER CO.
of AMERICA, Inc.
JEANNETTE, PA.

*Direct Factory Branches and Service Agencies
Throughout the World*





Don't Buy a Pig in a Poke

Good Furniture Standards

IN the following standards for good furniture, the word MAHOGANY has been used throughout, but it must be understood, the terms apply with equal emphasis to any other cabinet wood.



Solid Mahogany

Furniture designated as Solid Mahogany shall have all exposed surfaces of Solid Mahogany.

Mahogany

Furniture designated as Mahogany shall have all exposed surfaces (both solid parts and plywood) of Mahogany.

Combination Mahogany

Furniture designated as Combination Mahogany shall have all exposed surfaces of Mahogany (solid or plywood) in combination with Gum, Birch or other suitable wood.

The kind of wood used in combination with Mahogany shall be named. For example: "Combination Mahogany and Birch" or "Combination Mahogany and Gum."

Imitation Mahogany

Furniture designated as Imitation Mahogany shall be that with exposed surfaces of other woods colored to imitate Mahogany.

The term "exposed surfaces" shall mean those parts of a piece of furniture exposed to view when the piece is placed in the general accepted position for use in the home.

—and don't buy furniture from your dealer without a guarantee, covering the kind of wood of which it is built.

Then you will be sure to get what you pay for.

THE buying public now has simple standards to guide it in its furniture purchases, for the Associated Advertising Clubs of the World, after numerous conferences with Furniture Retailers and Manufacturers, has finally set up standards by which Furniture Retailers should advertise and sell furniture to the public.

If you want GENUINE MAHOGANY furniture—either solid Mahogany or well built Mahogany plywood—demand of the store selling you, a guarantee that it conforms to the MAHOGANY or SOLID MAHOGANY classification of the Associated Advertising Clubs.

Don't overlook that only under these two classifications must all of the exposed parts of a piece of furniture be Mahogany.

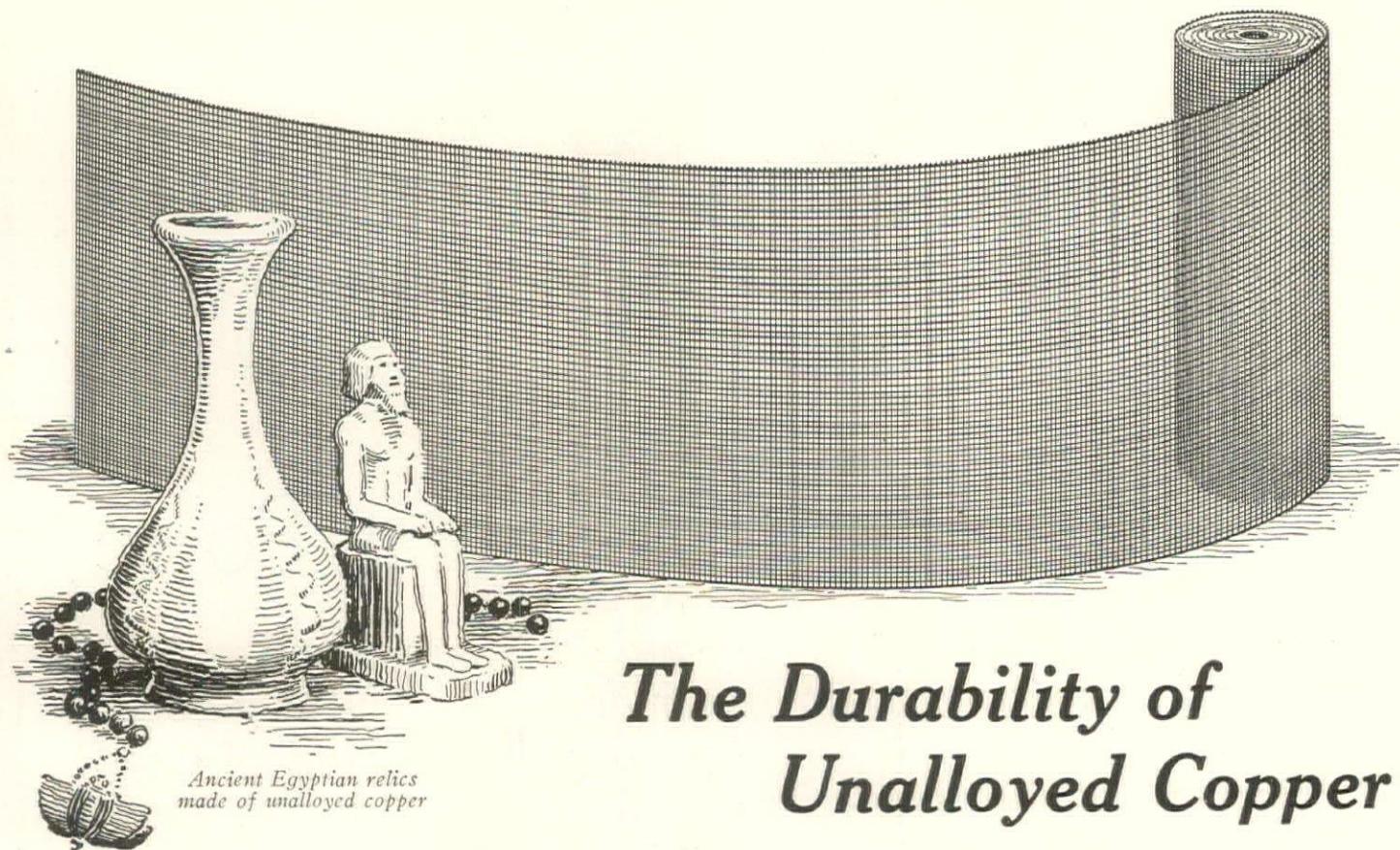
Do not be misled by the use of the word "finish," in any of its moods or tenses. It was not incorporated in these standards because it did not tell the truth.

The use in furniture advertising and selling, of the terms "Mahogany Finish", "Finished in Mahogany", or any other use of the word "finish", will be a warning to you that the piece is not made of Mahogany.

THE MAHOGANY ASSOCIATION, Inc.
New York City

After all—there's nothing like

MAHOGANY



The Durability of Unalloyed Copper

Ornaments and adornments made of pure copper by the Egyptians of pre-historic times have come down to us through thousands of years in perfect condition. Of all the metals commonly used by man, pure copper is the most enduring.

It is for this reason that The New Jersey Wire Cloth Company uses copper 99.8% pure—not copper alloys such as bronze or brass—in its best grade of insect screen cloth. This copper is produced by the Roebling process which makes it unusually stiff and strong. It is the ideal metal for door and window screens.

You can obtain a length of service from your screens heretofore undreamed of by using Jersey Copper Screen Cloth instead of galvanized iron, steel, bronze, or brass. There will be only a slight difference in original cost and an enormous saving in cost of upkeep. Jersey Copper Screen Cloth cannot rust, is of uniform quality throughout, and will give years of satisfactory service.

You can obtain Jersey Copper Screen Cloth, 16 mesh (coarser should never be used) in most of the better grades of custom-made screens, and from hardware and building-supply dealers throughout the country.

On request we will gladly send you a booklet entitled "A Matter of Health and Comfort." If you are a home owner you should read it.

JERSEY
COPPER
Screen Cloth



THE NEW JERSEY WIRE CLOTH COMPANY

624 South Broad Street

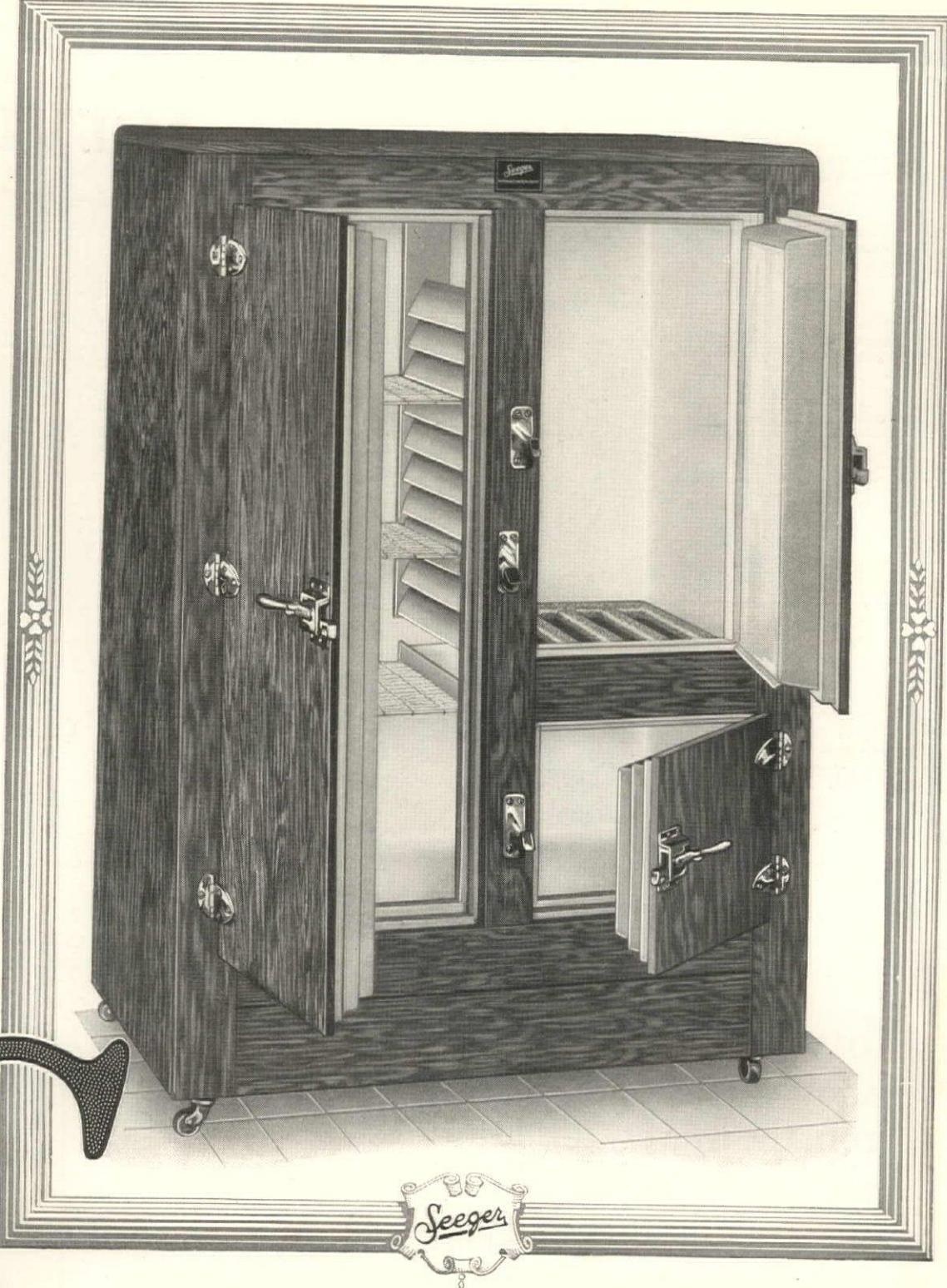
Trenton

New Jersey

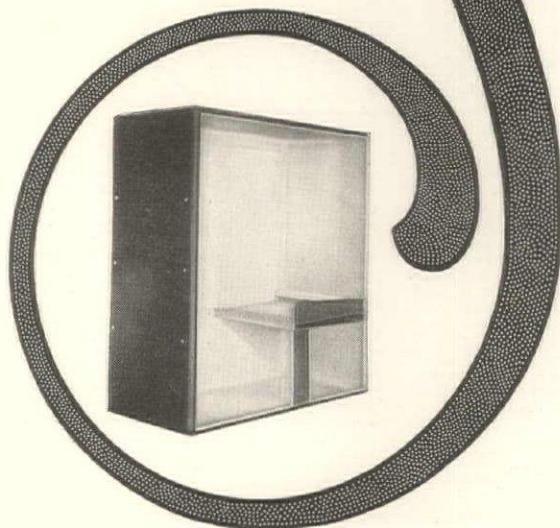
Seeger

ORIGINAL
SIPHON
REFRIGERATOR

STANDARD
of the
AMERICAN
HOME



*The Seeger One-Piece
Porcelain Interior*



The function of a refrigerator is to conserve food—as economically, as hygienically and for as long a time as possible.

Seeger Original Siphon Refrigerators have for many years and in various capacities always filled these requirements to the utmost degree. Each successive year has witnessed added improvements, until today the Seeger stands for the ultimate in refrigeration value and efficiency.

The design shown above is one of our 1922 models, embodying our new One-Piece Porcelain Interior and the White Oak Flush (no panel) Exterior.

Its dignity of finish and its positive hygienic qualities recommend it everywhere.

Upon written request, we will gladly furnish a list of Railways, Hospitals, Hotels, Apartments and U. S. Government Institutions—including the Army, Navy, Aviation, Public Health and Shipping Boards—equipped with Seeger Refrigeration.

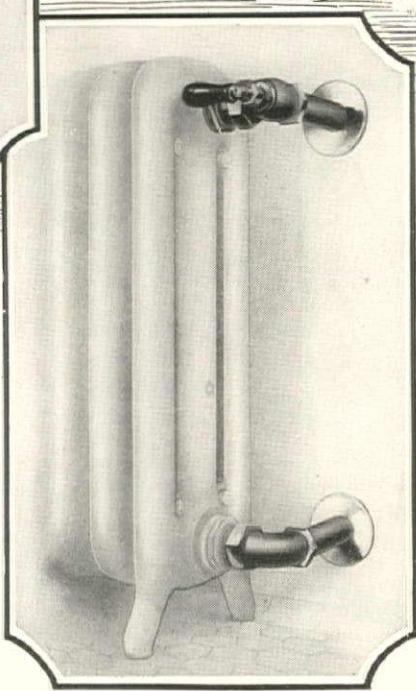
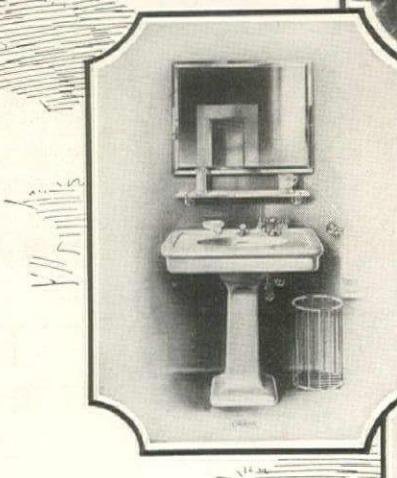
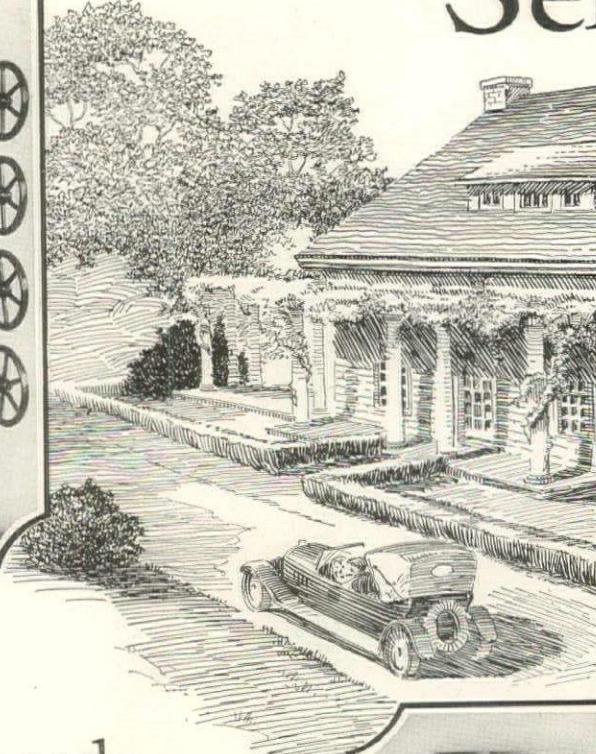
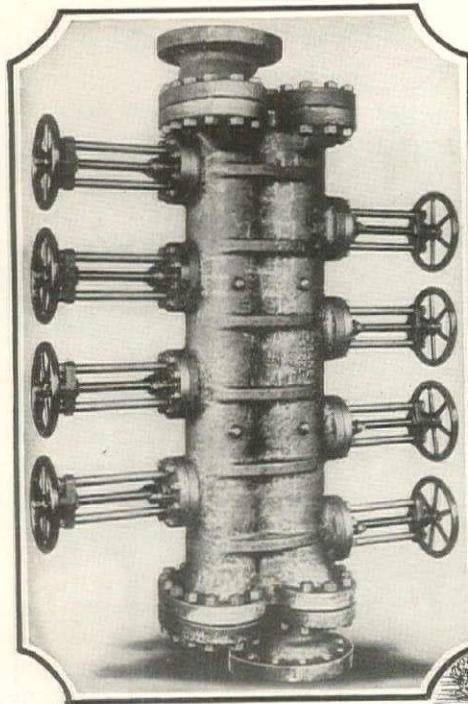
SEEGER REFRIGERATOR CO.
ST. PAUL, MINNESOTA

Representatives in all Principal Cities.

NEW YORK CITY, 399 Madison Ave.
LOS ANGELES, CAL., 311 Terminal Sales Bldg.

BOSTON, MASS., 82 Washington St.
SAN FRANCISCO, 715 Indiana St.

CRANE Service



You will not need one of these Valves in your contemplated home, hotel or apartment, but

You will need many Valves and Fittings from the line of 20,000 articles which we make or distribute through the heating and plumbing trade

We are manufacturers of about 20,000 articles, including Valves, Pipe-Fittings and Steam Specialties made of brass, iron, ferrosteel, cast steel and forged steel, in all sizes, for all pressures, and all purposes; Sanitary Equipment for buildings of all kinds and sizes; and are distributors through the trade, of pipe, heating and plumbing materials.

THERE IS A NEARBY CRANE BRANCH OR OFFICE* TO GIVE YOU CRANE SERVICE

CRANE CO.

836 S. MICHIGAN AVE., CHICAGO

VALVES - PIPE FITTINGS
SANITARY FIXTURES

CRANE EXHIBIT ROOMS
23 W. 44TH ST. AND 22 W. 45TH ST., NEW YORK
1105-1107 BOARDWALK, ATLANTIC CITY

To which the public is cordially invited

WORKS: CHICAGO: BRIDGEPORT: BIRMINGHAM

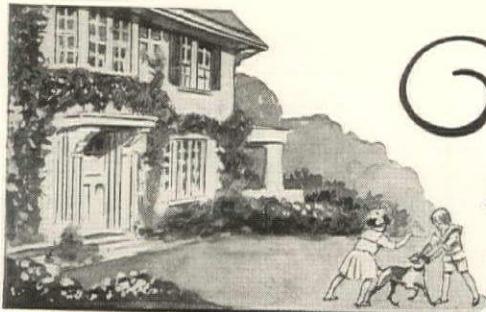
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Asenath Leavitt
Editor

JUNE 1922

Chester Lewis
Associate Editor

Published Monthly by NORTH WESTERN EXPANDED METAL CO. 1237 Old Colony Bldg CHICAGO

An "Armour-Plated" Home

NOTHING can ever quite take the place of wood in residence construction, for no other material so happily combines so many of the major qualities of flexibility and comfort with that great requisite — *moderate cost*.

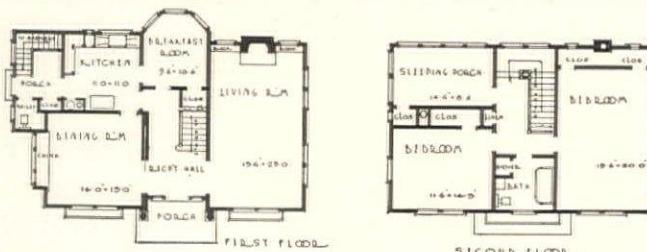
"But," someone queries, "how about the fire hazard?" A timely question, indeed, in view of the yearly increasing fire loss. Fortunately, however, for the home builder of moderate means, architectural science has devised an economical way to "fireproof" a frame house.

A Chicago architect who used this type of construction for his own residence refers to it as his "armour-plated home"—surely a strong endorsement for its fire safety.

Simple Safe Construction

The method of construction is so simple that any prospective builder can easily follow it. The house is stucco finished but "stucco with a difference," inasmuch as the stucco is applied over a steel mesh—Metal Lath. The web of steel covered with incombustible plaster virtually forms a reinforced concrete slab—a fire-resisting covering or protection for the main structural timbers.

Metal Lath is also used as a base or support for the *interior plastering*, thus the wood studs are "armoured" on both sides by the steel and cement covering—ample protection from any average fire that might start either inside or out.



The charm of this "armour-plated" stucco home appeals to the most discriminating.

The other dangerous parts of the house where fire is most likely to occur—stairs, chimney breasts, ceilings over heating plants, etc., are similarly protected.

An additional precaution is taken; namely, the installing of "baskets" of Metal Lath filled with incombustible material—waste mortar, brick, etc., these being technically known as "fire stops." These fire stops are placed in continuous passages under floors and behind the walls which would otherwise serve as flues through which flames and hot gas could rapidly spread.

Fire Stops Mean Safety

Says Architect Vandervoort Walsh, Instructor of Architecture at Columbia University, "This business of setting up fire stops when the house is being constructed should be known to every architect. They can be provided for in the plans and specifications without adding much to the expense and *adding very greatly to the safety of the house.*"

Safety Combines with Beauty

In addition to providing safety, there is another decided advantage in using Kno-Burn Metal Lath in home building—Kno-Burn insures the success of stucco and interior plaster by supplying the reinforcement needed to prevent cracks.

The use of Kno-Burn Metal Lath as a plastering base is indeed almost a necessity when the walls or ceilings are to be finely decorated. The metal web or "Steel Heart of Plaster" so thoroughly reinforces in every direction as to insure a permanently smooth, firm surface, unmarred by streaks or cracks.

Free Information for Home Builders

"Home Building" is a book full of suggestions how to get the utmost in appearance, convenience and durability out of your investment. It is free to prospective home builders. Write for your copy today.

Asenath Leavitt

North Western Expanded Metal Company:

Please send me your home-building booklet No. 1237.

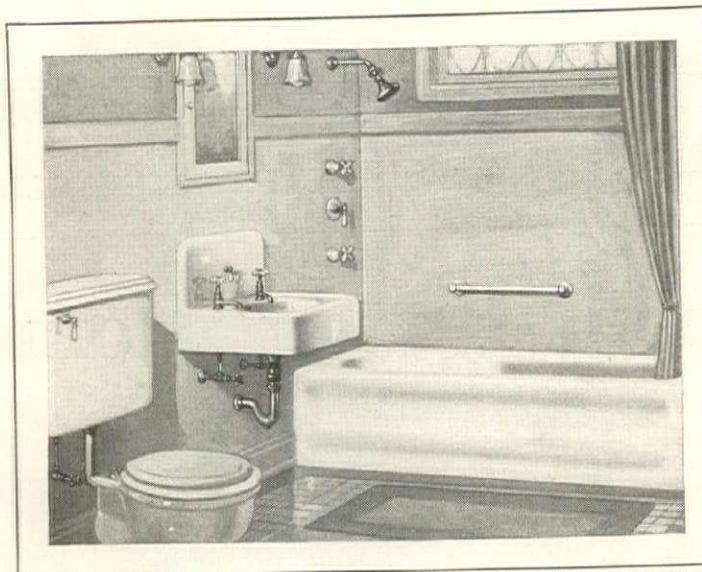
Name

Street

City and State

Remarks





The tub illustrated above is the famous Kohler Vicerey built-in bath with shower

THE INDEX TO YOUR STANDARDS OF LIVING

THREE is one room in every home which is the key to the real standards of living of that household.

The furnishings in the rest of your home reflect, from necessity, the limitations of your income.

But whether this one room in question reflects your sense of refinement, your ideals of hygiene and sanitation, is a matter, not of money, but of pride.

For you can have a bathroom as finely equipped as those you have admired in hotels of the first class or in attractive homes, at a cost within the reach of a modest purse.

Most people have a mistaken idea of what a fine bathroom costs. An attractive, modern Kohler bathroom such as that pictured above costs a surprisingly low sum.

There is a Kohler plumber near you who will be glad to give you an estimate of the cost of replacing your old plumbing fixtures with glistening, snow-white Kohler Enamaled Plumbing Ware. Call on him now! He can give you much useful information.

You have always known of Kohler Ware—bathtubs, lavatories, kitchen sinks—as beautiful and durable. You know Kohler Ware is used in the world's finest hotels and in countless thousands of homes and apartments. You, too, can enjoy their beauty.

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Every piece of Kohler Plumbing Ware is exclusively distinguished for (1) the snowy whiteness of its durable enamel (2) the uniformity of this whiteness in every fixture (3) the name "Kohler" in dainty blue letters inconspicuously but permanently fused into the enamel for your protection

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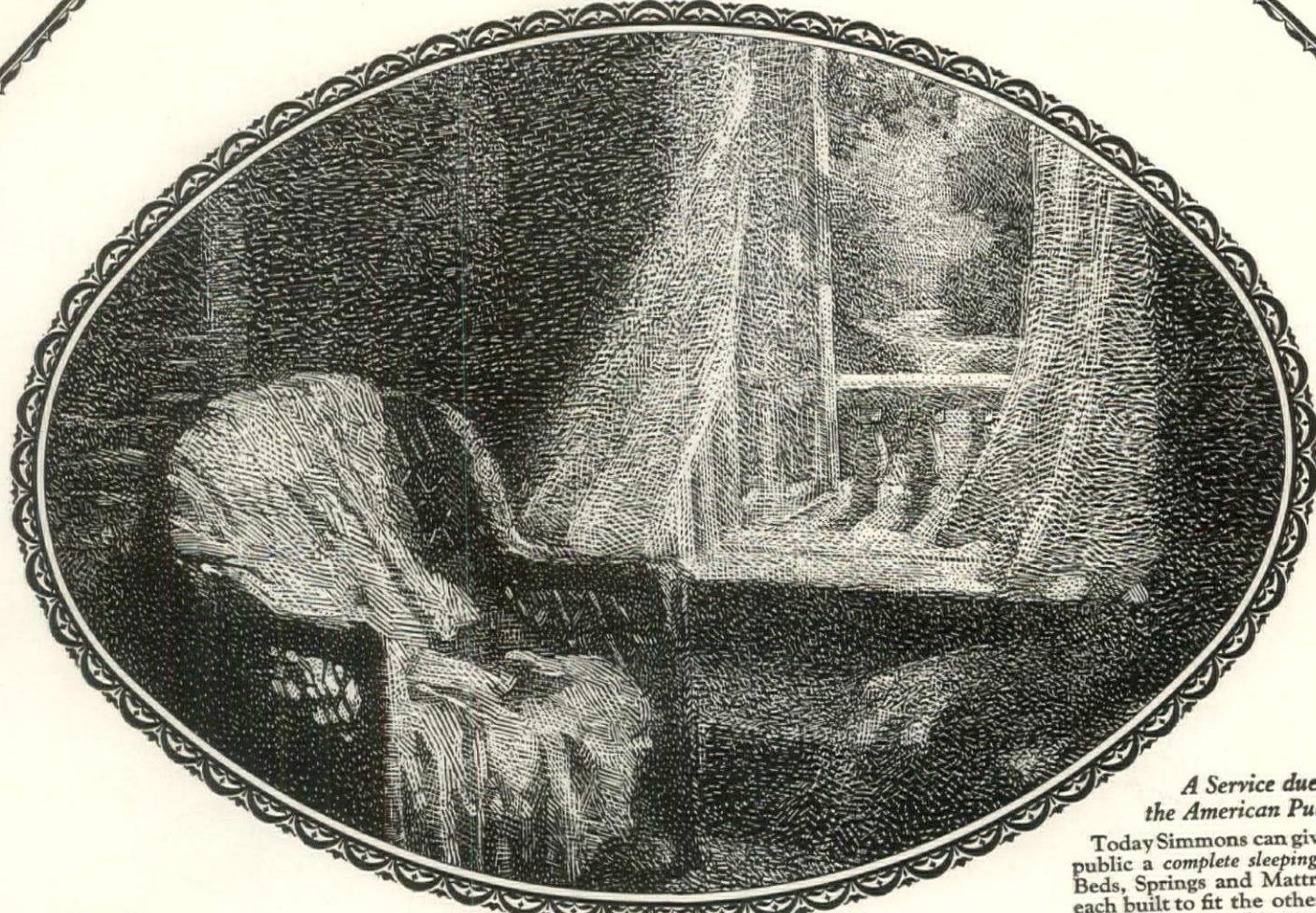
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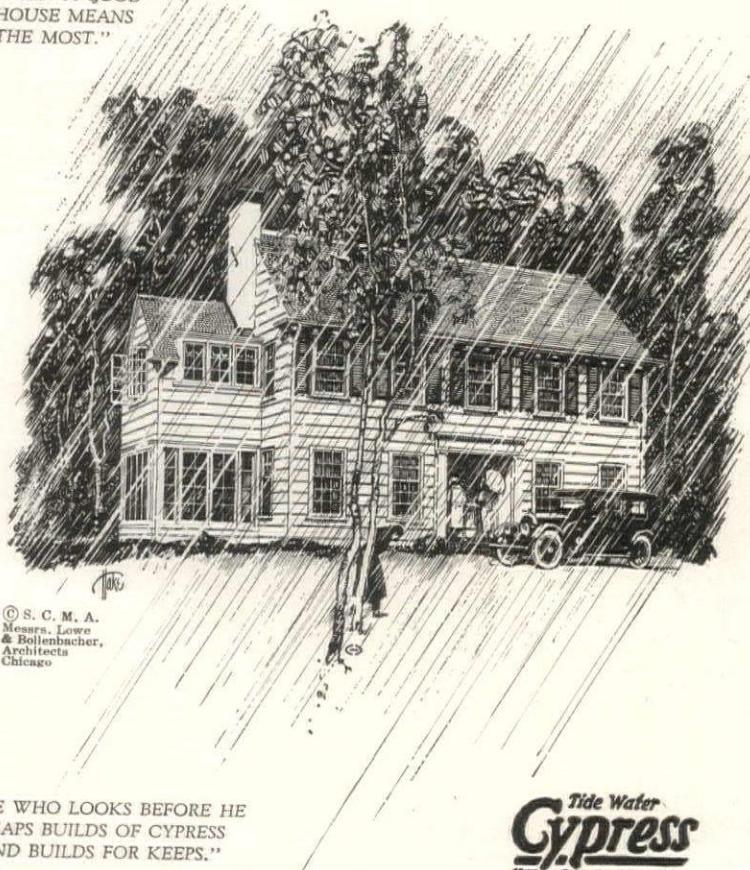
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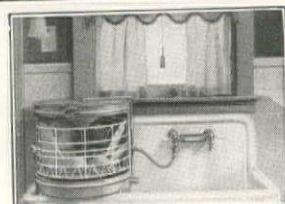
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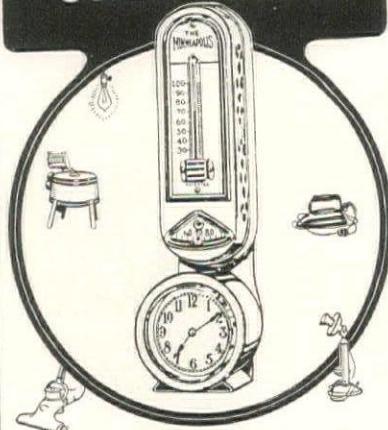


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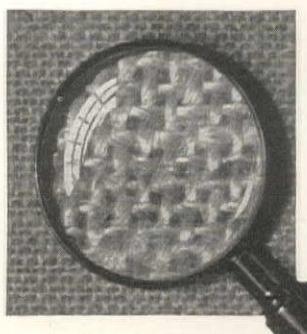
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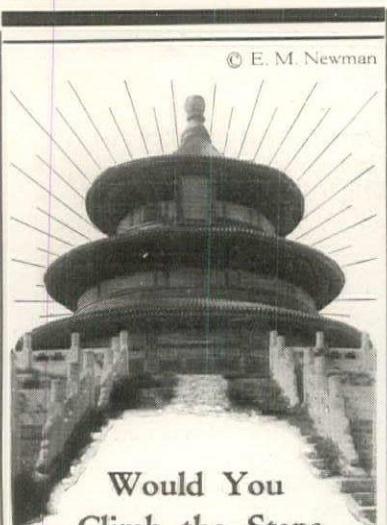
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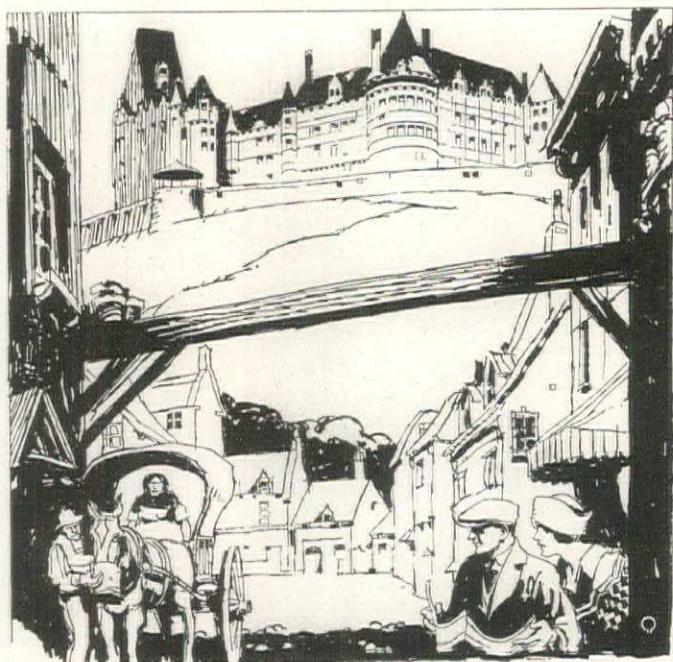
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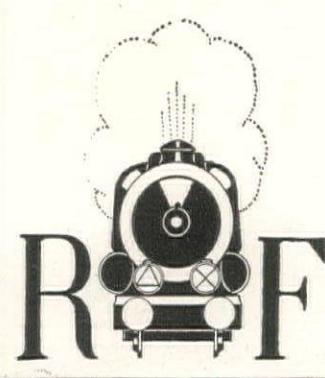
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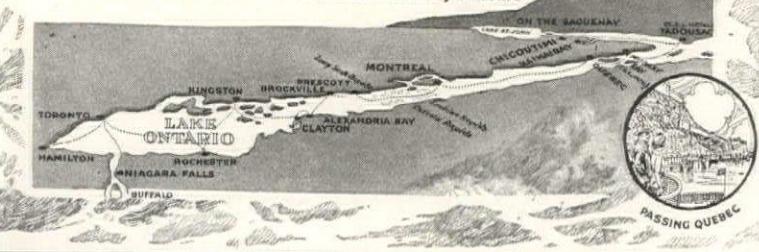
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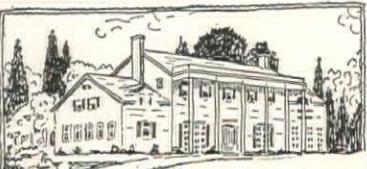
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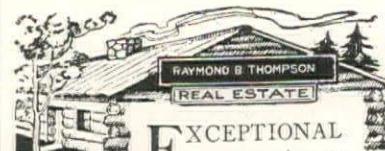
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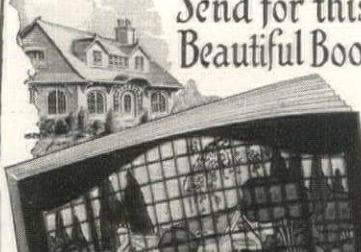
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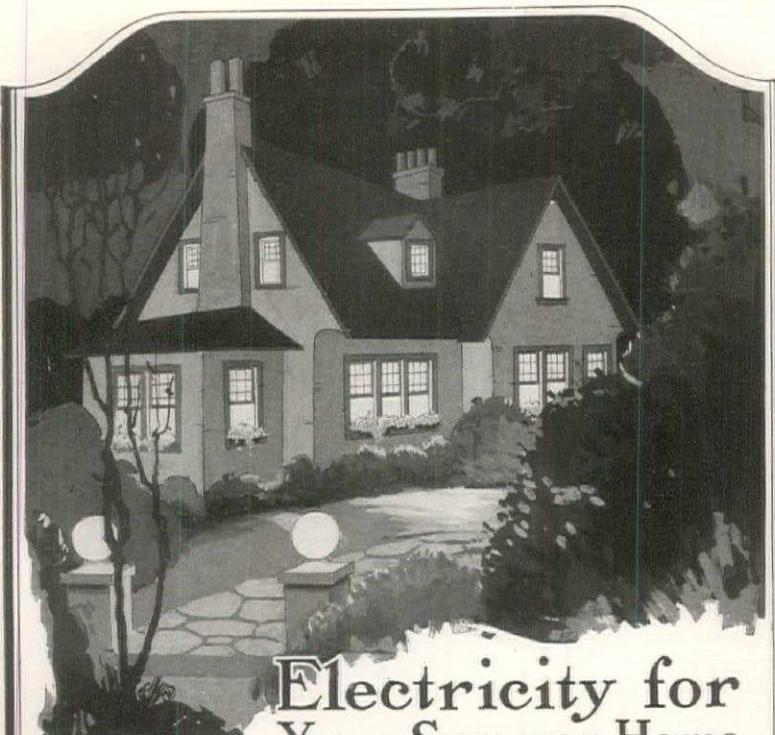
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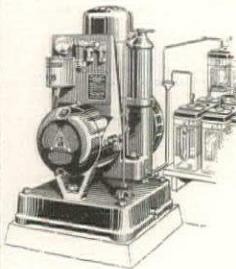


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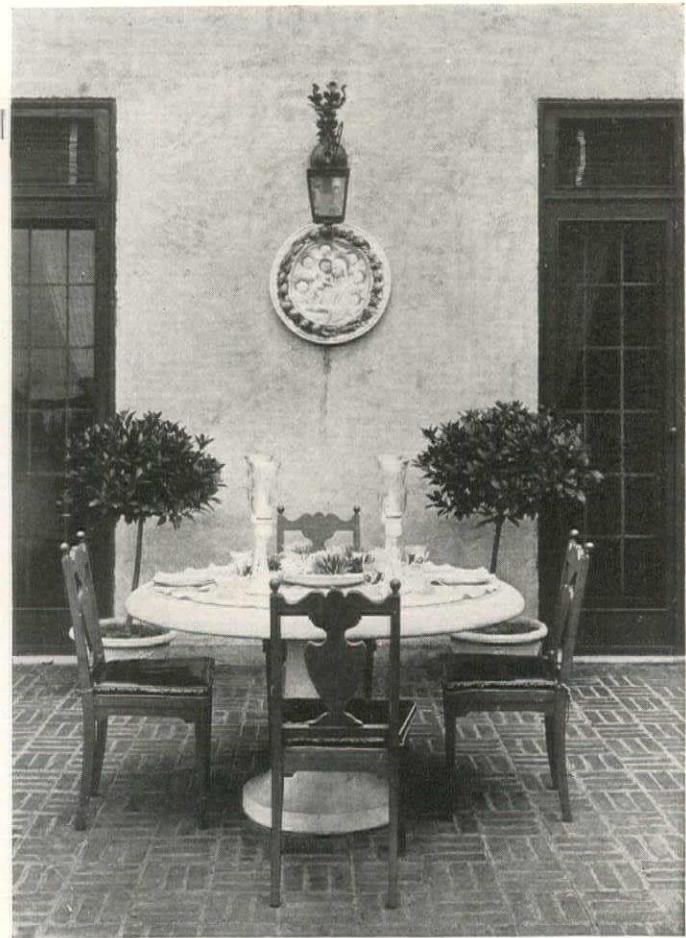
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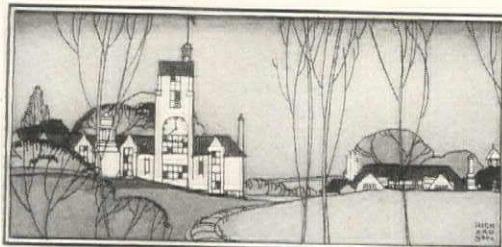
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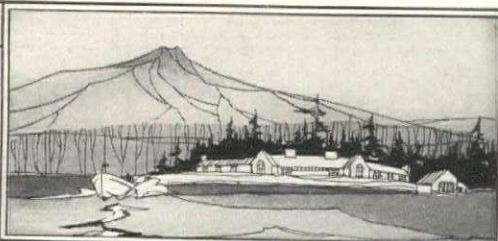
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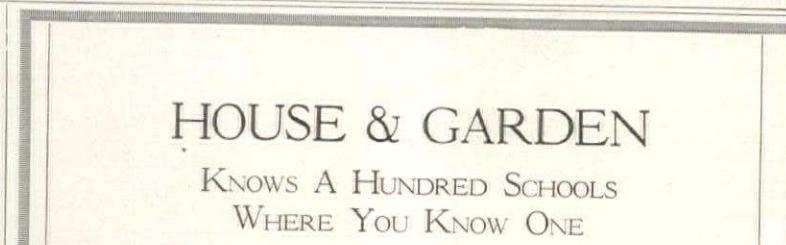
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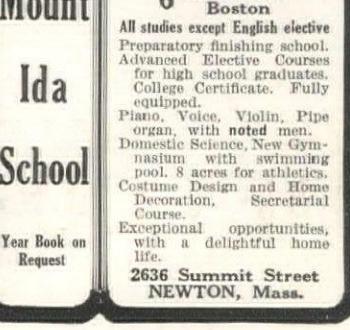
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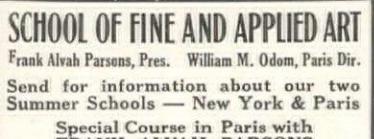
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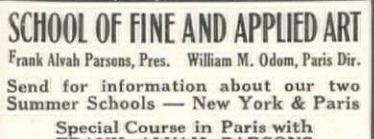
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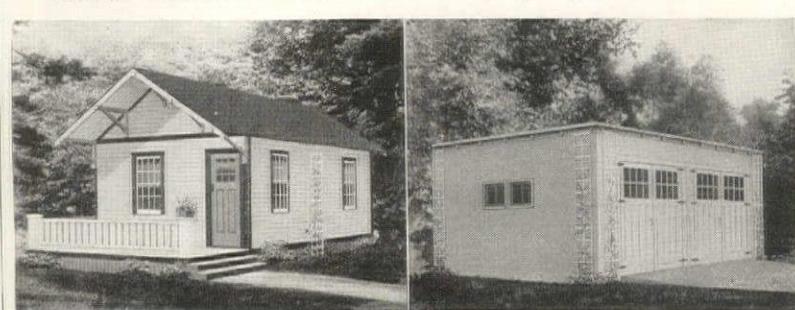


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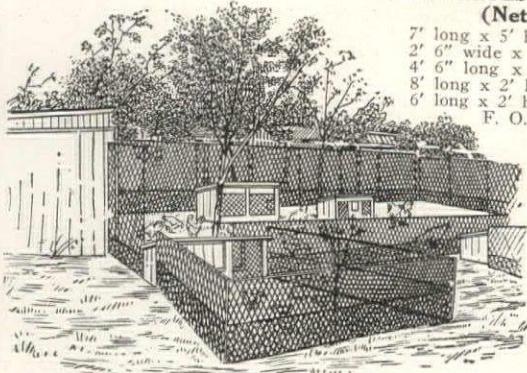
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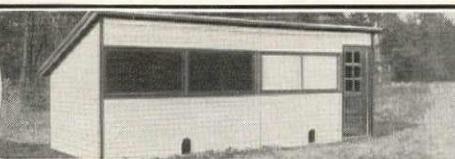
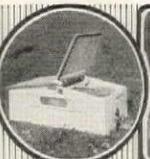
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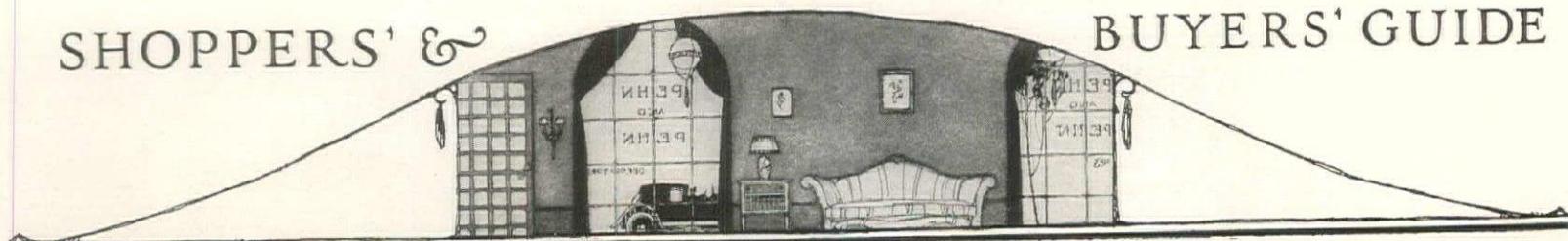


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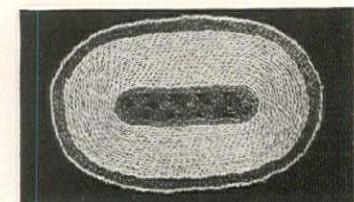
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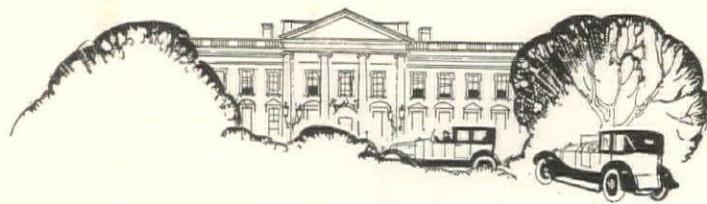
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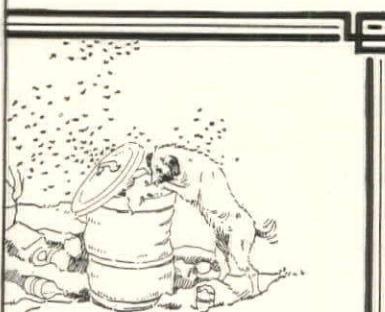
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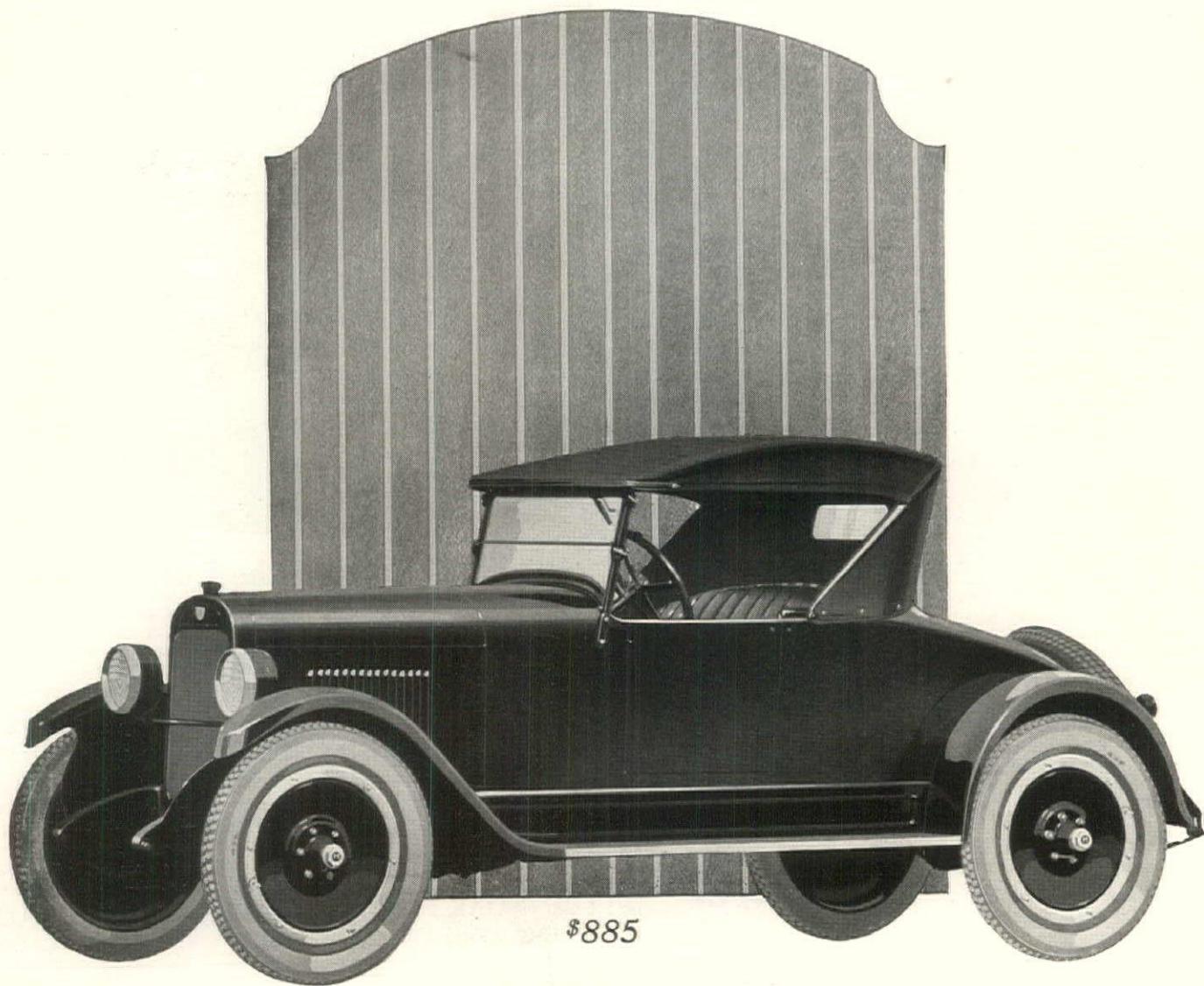
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House & Garden

NEXT COME SMALL HOUSES

HOUSE & GARDEN has grown obese. It has developed an advertising bay window. It tips the scales at an unbelievable figure. This would be deplorable did not obesity have its advantages. Fat people are usually good natured, they are usually generous and in most cases they are optimists. HOUSE & GARDEN hopes it has all these excellent qualities. On the other hand, obesity has its disadvantages and the most inexcusable is that it has a way of bursting its buttons. Several readers have complained that the binding on the magazine does not hold together. The issues were like the fat boy in "Slovenly Peter" who ate so much that he broke in half. We are sorry to have burst our buttons, but the printer assures us that he is binding us in a new style and that it can't possibly happen again.

Having made our little apology, let us call your attention to the fact that the July issue (buttons and all) is to be devoted to small houses. We have been preparing for it for some time, because good small houses do not grow on every bush. We combed an immense amount of material to assemble the five pages of small houses and plans, and we were quite happy in being able to show besides, some designs for log cabins and a model house that the architects



Glimpse of a simple interior, tastily furnished for a small house. This is shown in July

say can be built for \$16,000, pergola and all. Perhaps, if you are planning to build, you will also enthuse as much as we have over the pages of fireplaces, the article on how to use shingles effectively, the page of excellent garages and the little essay Charles Hanson Towne has written in praise of the small house.

But houses, even the small ones, have insides, and we are careful not to neglect these interiors. Here is an article on the essential furniture for the small house, a page of color schemes suitable for intimate rooms, some suggestions on how to use gray in decoration, and how to use lace for window curtains, on how to furnish the nursery, a portfolio showing the decoration of an American farmhouse in Illinois and a before-and-after study of an erstwhile homely house.

And then there's the garden side of this number. The article on how to water and irrigate the garden is worth studying, because the dog days are not far off. The gardens that were laid out in old house foundations are a fascinating idea. And we can likewise recommend the article on tree surgery, and the one on a small naturalistic garden for a city house.

Though you may doubt it, there is even more in this number. The appetite of fat boys is amazing!

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O L D G A R D E N E R S

*Among Those Worthy to be Called Our Friends
We Should Find Room for the Men Who Work
With Us in the Creation of Fruits and Flowers*

EVERY once in a while the English and American gardening press publishes the obituaries of old gardeners. There was the late Mr. Blank, for forty-seven years head gardener to Lord and Lady So-and-So, and, the obituary reads, "an esteemed friend of the family." Another shows a service of thirty-five years on one American estate under one master. Twenty years' continuous service is a commonplace. It appears that gardeners have no difficulty holding their jobs so long as they are good gardeners.

Scarcely one of us but can recall some such old gardener. He is the inevitable figure in the lives of children bred in the country. So inevitable is he that playwrights are casting old gardeners for picturesque rôles and novelists use them as a stock in trade. They can always be depended upon to utter choice bits of philosophy, crude poetic phrases and amusing, homely epigrams. But they must be old, they must have seen, like Mr. Blank, forty-seven years of service.

Now forty-seven years go back well into the reign of Queen Victoria, into the era of bustles, modesty and horsehair furniture, into that domestic age when, perhaps because they had no other place to go, men and women stayed at home. And staying at home, they pursued the domestic virtues, tended to their houses and cultivated their gardens. This, doubtless, had a great deal to do with the gardener's long term of service.

THE old gardener, as most of us picture him, invariably puttered around. He was not a fast worker nor, according to current standards, highly efficient. He took his time, for time meant little to him. His life and work were regulated by the fickle moods of the seasons. His ideal was to keep plants healthy so that they produced fine fruit and flowers; in them he took pride and found his compensation. A compliment from his employer, and he was set up for days. Not a patronizing word, mind you, but a compliment that came from a full understanding of the work entailed in raising that perfect rose and growing that perfect apple.

In the course of their thirty or forty-seven years, these old gardeners saw a new generation grow up and, in time, were accorded the esteem of that new generation. They felt the varying fortunes of the family—the successes and failures, the joys, the tragedies, the poignant griefs and mysterious compensations. In short, they were loyal to their employers and their employers were loyal to them.

These things, it would seem, belong to a golden age long since passed and never to return.

WE hear a great deal of talk nowadays about the difficulty of getting and keeping servants. We are told that the old kind of servant has passed out of existence. That is perhaps true. So has the old kind of employer. We have country places aplenty, but it doesn't seem to be as fashionable as it used to, for a man to have a country home and stay there. The passion for golf, the passion for gadding around, draws owners away from their country places. The gardener has no chance to become an esteemed friend of the family.

There was the gardener on a certain large estate in Massachusetts, to quote one instance. A large staff was employed on this place, and his share of the work consisted in growing roses—garden roses in summer and greenhouse roses in winter. It was the sort of job that is highly prized among professional gardeners. But still he was unhappy and threatened to leave. When asked his reasons, he gave them as follows: "I grow the roses. Every morning I cut big bunches of them and take them down to the house. The butler puts them around. The next morning I do the same thing. I'm simply a machine to grow roses."

"But if you get paid for that, why resign?" someone protested.

"Because the family is never here to appreciate those roses."

I heard recently of a remarkably good cook who gave notice for the same reason—the family was rarely home to enjoy her gastronomic creations.

Loyalty, even with gardeners and cooks, is a two-party matter. Success with them depends as much upon the employer as the employed. It is not enough to pay wages regularly. A little bit more must be added in compliment and appreciation, and the compliments must come understandingly.

IT is one thing to employ a gardener and quite another to have that man an esteemed friend. He either works for you—or with you. If he works with you, the garden will be yours. If you yourself help turn the earth and set out the seedlings and spray against pest and feed and nurture the plants, then a dozen gardeners cannot take away from you the honest feeling that that garden is yours. This sort of physical cooperation is essential.

While the employer may not be as skilled in garden work as his gardener is, he should at least understand the theory of it and keep in touch with new developments. The lack of this understanding leads to a lot of trouble. And, unfortunately, we find it in many parts of the modern household. We have women expecting servants to do work which they themselves do not understand. Lacking the knowledge, they find their domestics a constant problem and housekeeping a wearying responsibility. Lacking garden knowledge, our new country gentlemen expect absurd miracles of their gardeners. True, the employer should direct the work, but he should also be able to take part in it.

It doesn't hurt a good employer to be occasionally mistaken for his gardener. One day last summer there descended upon my place a smartly dressed visitor. Being told at the house that I was up working in the garden, she came to the hilltop in all her panoply. My aged Swede and I were both down on all fours weeding a patch of asters. From the rear she could not tell us apart, and she addressed that Swede as, perhaps, he had never been addressed before. Later she scolded me for looking so much like a tramp—or a gardener, but I didn't bother to explain.

THE old gardener has many moods and most of them have been chronicled. He is a philosopher at times, and at times a blusterer; at times a tyrant whose wrath you would never dare by plucking one of his favorite flowers. But I doubt if I have ever seen the gardener pictured in his Sunday clothes.

The best place to see him in this array is at a flower show. His costume is wonderful to behold. It is usually a caricature of all the funny clothes you have ever seen, and it ranges from a Prince Albert, stiff shirt and machine-tied cravat to loud checks and lemon yellow shoes.

It is at flower shows that the gardener has his crowded hour of glory; he hobnobs with other queer-looking gardeners—other strange fellows in strange clothes. To them he exhibits both his flowers and himself. Then, when the show is over, having had his fill of glory, he goes back home, lays aside the gaudy habiliments, and takes up his work again. Like Mordecai, the beggar at the gate, whom the king desired to honor. Having been honored, Mordecai returned again to his beggar's corner at the gate. It was the only sensible thing to do.

Last year I picked up one of these gardeners at a show. A German, with the drooping moustaches of a walrus. He was dressed in the horsey style of a bookmaker at the races—checks, red tie and gray derby with strange shoes that look as though they were made to accommodate bunions. He was a walking cartoon, and I picked him up because he was so amusing. After a few minutes' conversation he led me off to an exhibition and pointed out a new delphinium he had created. It was unspeakably beautiful. And then he talked—talked like a man in a vision, like a prophet on a mountain top, like the artist that he was, about flowers and his work with them. He had been working ten years now with delphiniums. He was willing to work more. I soon forgot how funny he looked.

Later he introduced me to his employer. It was evident that he was an esteemed friend of the family.



AN ECONOMICAL PERGOLA

Certain types of gardens can be enhanced by delicacy in the design of the pergolas and shelters. Not necessarily formal gardens, rather places in which the planting is low and the flowers small. Such a pergola is shown here. While it has the appearance of stone, the structure, in reality, is made of wood over which has been applied canvas

fastened by water glue. The surface was then sanded. For decorations a composition was used, and for floors, imitation Italian travertine. The pergola has successfully withstood the action of the elements. It is in the garden of Richard A. Rowland, at Rye, N. Y. Dwight James Baum is the architect who designed it



T H E H O U S E I N T H E G A R D E N

*In Its Architecture, Location and Uses the Garden House Has Been
a Mirror of the Modes of Many Centuries*

LUTTON ABBOTSWOOD

THE history of garden houses, like that of any other human contrivance which has lasted through and has been modified by the centuries, would be a contribution to the history of the evolution of manners.

Such as have survived from the late Middle Ages are solid buildings of brick, usually of two stories and polygonal, set in the angle of a wall, and suggest by their appearance that, to whatever uses they may have been put, they had their origin in the watch tower, which was a necessity of a lawless society.

Under Tudor and Stuart, the garden house was primarily a banqueting house—of “curious and artificial” design, in Gervase Markham’s phrase—like that which Bacon set on a mound 30' high in the center of his ideal garden, or the circular building at Theobalds, which contained marble statues of the Roman Emperors, and tanks for fish and for washing. During this period these structures, whether placed on the terraces, on artificial mounds, or in the retaining walls, were nearly always built with two stories, and often contained sleeping apartments.

In the later 17th and early 18th Centuries the typical garden house was a square and solid structure with pointed roof and projecting eaves, often very satisfying to the eye, but built primarily with a view to comfort.

The mid-18th Century, with



The octagonal shape was a favorite form among builders of garden houses in the past. Its proportions are pleasing and, when executed in stone, as in this instance, it becomes an important garden feature

its cult of the classical, saw the introduction of the miniature Greek temple, often of beautiful proportions, but with the rise of taste for sham Gothic the art of the garden house fell into a decline, of which the final expression was the rustic and flimsy “summer house,” of little use but as a temporary shelter.

In recent years, however, many pleasant garden houses have been built, and old ones, long neglected, have been refurbished. It is a revival to be commended, for the garden house may be both useful and beautiful, and its planning and placing afford great scope for the exercise of taste. As a sitting-room it offers the delightful sense of being at the same time indoors and out-of-doors, not to be obtained in the house itself even with the largest and most open of windows, while it makes an ideal refuge for concentrated work, quiet study, or the more intimate forms of conversation. How many a French novelist has chosen the garden house as the aptest setting for a conversation galante!

Even when it is not wanted for these purposes, it is useful as a storehouse for tools or such accessories of recreation as tennis nets and croquet sets. There is no reason why, because its functions are humble, a building should be unsightly; and the external appearance of a tool-house, at any rate, if it is at all con-

spicuous, should be as carefully considered as anything else on which the eye is likely to rest.

But of the garden house, which is to be a place of social amenities, the inside as well as the outside must be carefully considered. It should be comfortable, and even if a fireplace is not put in, as was frequently done in the 18th Century, it should be free from draughts, with walls well paneled or plastered. That it should command a view is another essential, and therefore it should have plenty of windows, besides a wide opening at the front; if it be octagonal in form, so much the better.

In the choice of its site, this matter of the view is, of course, important; but it must also be remembered that the garden house is not only to be looked out of, but looked at. It should be placed at the end of some vista, where it will afford an effective relief to its surroundings. With these it

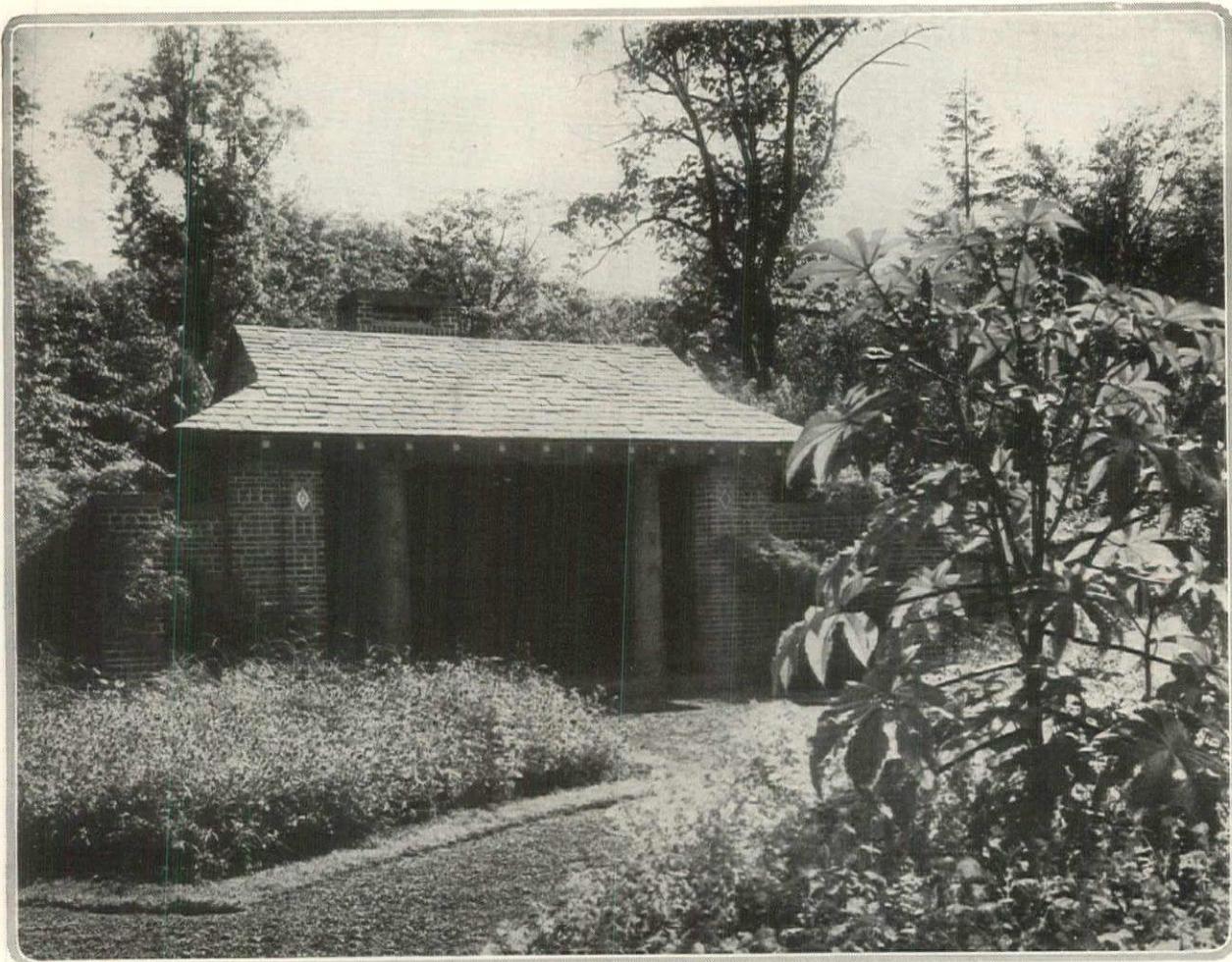
must neither merge nor clash. It certainly should not try to pose as a natural feature of the view, but startling effects are better avoided. Here comes in the question of form and material.

Simplicity without crudity accords best with the modern garden. Where the garden house is close to the residence, the architectural character of the latter should, if not actually repeated, at any rate be taken into consideration. Further afield, greater liberty is permissible; but liberty should never be allowed to become eccentricity. The wonder of one day is apt to become the laughing-stock of the next. On the whole, it is difficult to better the square or polygonal structure of brick or timber, with well-proportioned windows and pointed and tiled roof decorated, perhaps, with a weather vane of graceful design.

But it is a subject on which there is no need to lay down hard and fast rules. It is a field of architecture which invites experiment, and one in which there is scope for individual taste without great financial risk.

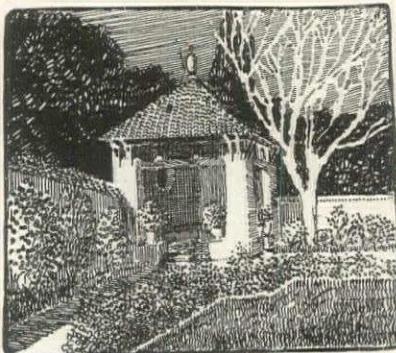
A number of types of garden houses are suggested by the illustrations. None of them is too elaborate for the American garden and each has some architectural merit in itself. The octagonal garden house, shown on page 39, is set at the end of a broad paved terrace and against a wooded background. Its proportions are exceptionally pleasing. Built of stone, with a slate roof, this retreat is rendered attractive within by paneling and an open fireplace with a chimney-piece of old oak.

The Palladian motif has been applied to this summer house in the garden of Mrs. H. W. Croft, Greenwich, Ct. It is paneled inside and furnished with benches



Coutant

The tea house in the garden of H. S. Shonnard, Oyster Bay, L. I., is built of brick and slate. It contains a large fireplace. Donn Barber, architect



A corner garden house, designed by J. C. N. Forestier, is planned as an elaboration of the stucco and tile treatment of the surrounding garden walls



Perrett

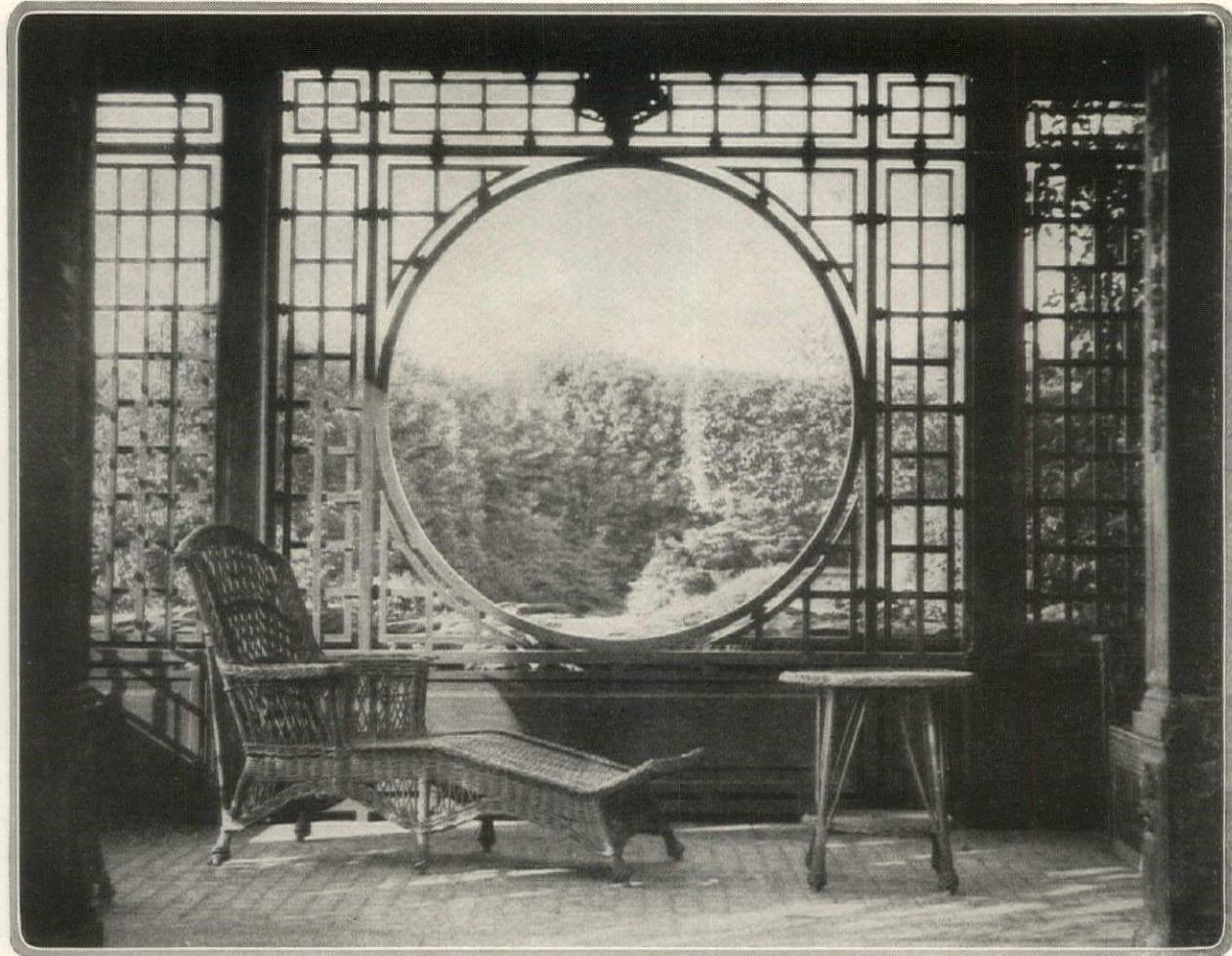
On the country place of H. S. Shonnard, at Oyster Bay, L. I., the tea house is a brick structure, roofed with slate and elaborated with stone inside. It is really a big inglenook, for a huge fireplace is located at the rear and there are comfortable settles on each side.

Of quite a different type is the garden house in the garden of Mrs. H. W. Croft, at Greenwich, Ct. Here is a suggestion of the Palladian motif executed in wood painted white and with lattice filling the pediment. The inside is paneled and there is a seat directly opposite the head of the stone stairs. An interesting detail of the paneling shows a repetition of the entrance arch motif set into the rear wall.

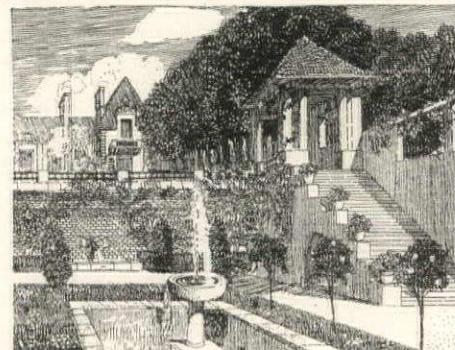
The view that a garden house commands is quite important, but equally important is the manner in which that view is framed. The openings should not be so large that the landscape overpowers one. Lattice can give the same relief to the view from a summer house that small pane windows do to a view from inside a residence. This fact is beautifully illustrated by the glimpse of the summer house on the lower terrace of John D. Rockefeller's estate at Pocantico Hills, New York.

A fourth type is the octagonal design by Delano & Aldrich for the garden of Mrs. Bertram Work at Oyster Bay, L. I. The house stands in a corner of the garden wall and is reached by a flight of steps. The level of the floor is raised sufficiently above the hedge to afford an unobstructed command of the garden. It is a structure simple in design and erection, having rough stucco walls and a slate roof. Such a design might be executed in plain wood with a shingle roof or the walls might be treated with canvas, glue and sand as Mr. Baum treated the pergola house shown on page 38.

The sketches represent designs by M. Forstier, the eminent French landscape architect, and are from his recent book, "Jardins". The first is an interesting projection for a two story summer house, reached by outside stairs. The second shows a corner garden house to be executed in plaster with red tiles, an elaboration of the treatment of the walls. The third design is for a house to stand at the head of a flight of stairs leading from a lower terrace. In their elements no less than in their details, all three offer many suggestions which we in America can well adopt in our own gardens.

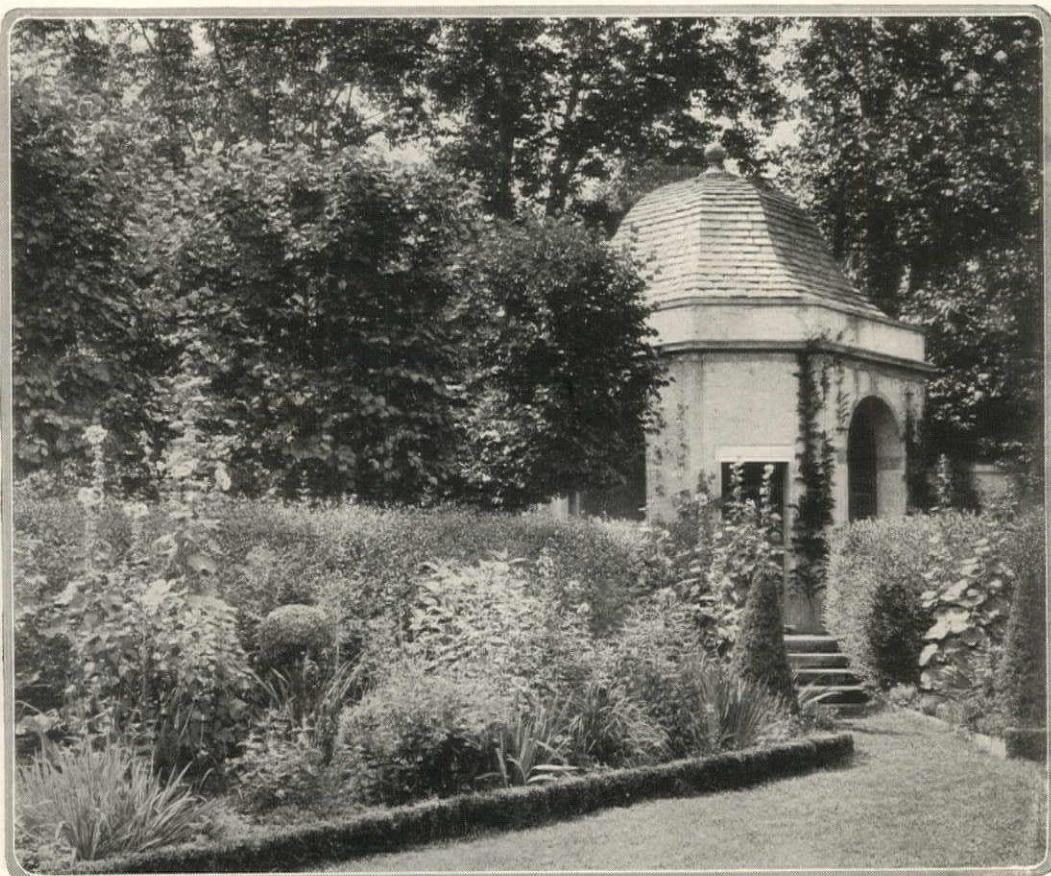


Perrett



Design for a garden house, by J. C. N. Fores-tier, to be erected at the top of a long flight of stairs leading from a lower garden terrace

Decorative lattice successfully frames the view from the garden house on the lower terrace of John D. Rockefeller's garden at Pocantico Hills, N. Y.



The octagonal garden house on the place of Mrs. Bertram Work, Oyster Bay, L. I., is executed in rough plaster with a tile roof. Delano & Aldrich, architects



Italian architecture of the 18th Century, modified to meet our living requirements, has been used in the design of the house. The Italian richness of color is

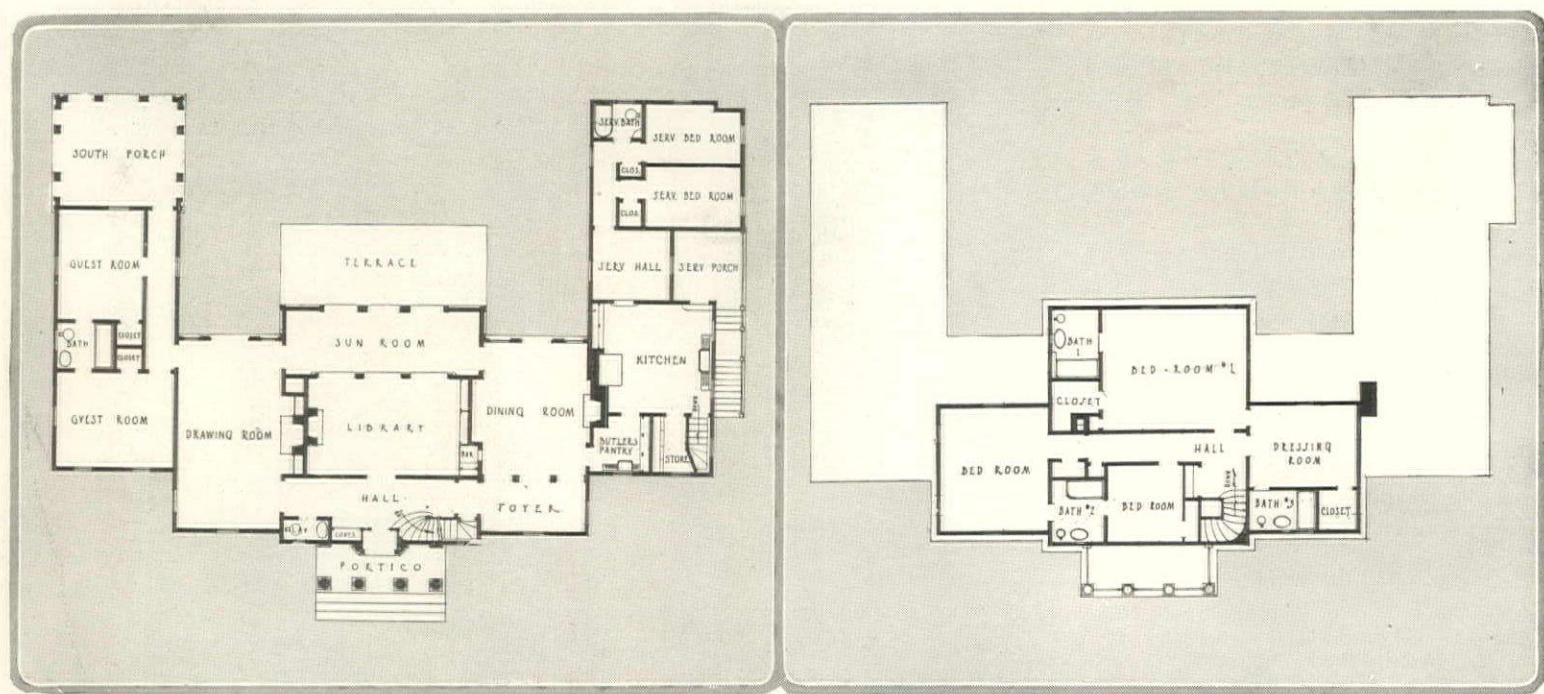
also employed—a light buff stucco with cornices and columns of limestone tint, Venetian grills and blinds and shutters turquoise blue, and peacock blue roof

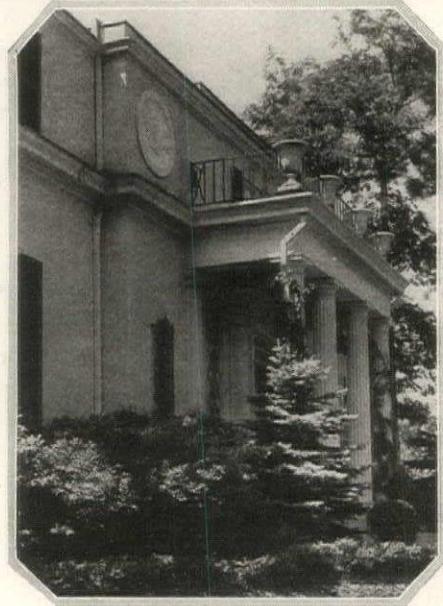
The first floor is unusual, with a library located in the middle of the house off the sun room, a small curved stairs and guest rooms and service in the wings

THE HOME OF ERNEST P. DAVIES, ROSLYN, L. I.

W. LAURENCE BOTTOMLEY, Architect

The owner's rooms are upstairs, three bedrooms with baths and a fourth chamber. Abundant light and ventilation are available, and maximum space

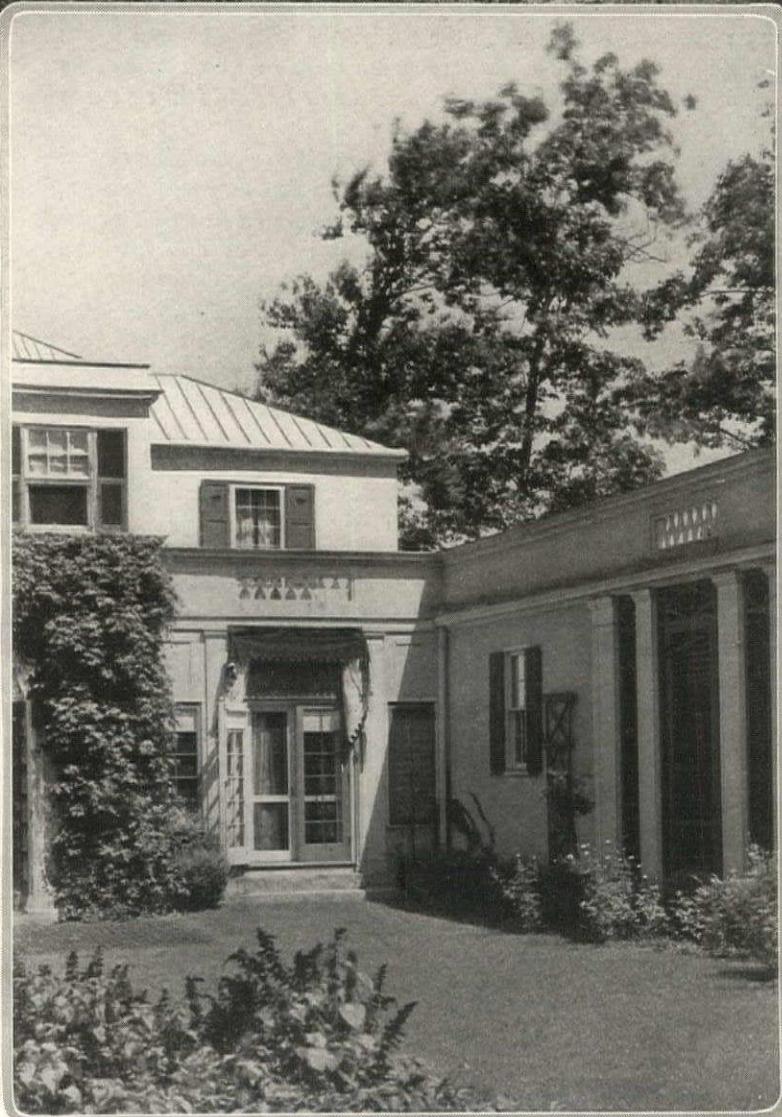




Wrought iron, classical urns, Doric columns and circular medallions have been effectively used in the treatment of the entrance portico. A planting of evergreens gives the house comfortable relation to its site

The view, above, of the front façade shows, in addition to the portico, several uncommon features, especially the wide cornice, the recessed second story and the parapet of the wings broken by decorative openings

A courtyard is created by the two wings. One steps off the middle sun-porch on to a brick paved terrace. There is also an enclosed porch at the end of the guest wing. The middle door leads off the drawing room



EATING OUT OF DOORS

*The Summer House, the Shade Tree, and the Protecting Hedge
All Call Us to Revive a Charming Custom of the Past*

WEYMER MILLS

WHEN the June sun gilds the dooryard or the walled garden, the owner of a country house becomes a miniature Cæsar. The whole budding, leafing world as far as his eye can reach seems to be his. Over Appenines of wonderment in a litter of his dreams he journeys into summer, although his earthly kingdom may hold only a few colorful perennials and a bed of shy cabbages. Birds and bees play rotes and lyres, and the gist of it all is a very old song from the Songs of Solomon. "Awake O North wind; and come thou South; blow upon my garden that the spices thereof may flow out. Let my beloved come into his garden and eat his pleasant fruits." When the daughter of Jerusalem in the dwelling place cries out in another strain, not quite so melodious "Haste thee inside for the fish is vanishing in the pan," or "the roast ox is growing leathery" he tries to lure her from the inner darkness. "Let us eat in the garden" is his plaint, and if she is diffident and there is no garden structure in which to eat, he adds a famous couplet from old Omar which has brought reluctant ones out of doors in all ages.

The wanderer in southern Europe who follows an itinerary of old gardens comes sometimes upon little garden houses, pavilions, gazebos and temples of love with weather-beaten amorini as the decoration. Here lovely ladies and ardent swains fled from the stately dining room in the great house to share a delicate repast with Mother Nature. Today the gentle decay of the places,—their faint odor of ancient dampness, makes us forget their period of youth before surrounding trees and shrubs had woven about them a leafy covering. The statue whose smiling marble lips have grown sardonic from the rainfall of hundreds of winters seems to hint that Philamonte or Chole came alone sometimes. The lover had gone to war, or some other charmer; and tempting viands amidst blossoming things might do much to still spring's disquietude. But the mocking Eros does not know all. When the temple was built it was the happy fashion to eat out of doors—a custom of the wise since the Garden of Eden. We find it flowering in the Renaissance, the candles of Gonzagas on their silken table cloths trying to outdo the very stars of Mantua and later, 17th and 18th Century votaries of pleasure wove it as a sweet interlude into days and nights or garish enchantments. One loves a humanized Marie Antoinette as she spreads her own churned butter on her fresh bread in her garden house at the Hameau of the Petit Trianon, casting wistful eyes at the Dutch hyacinths in full bloom, or a DuBarry shaking powder from her amber hair as she trips to some thicket at Louveciennes followed by her adoring Louis carrying a basket of cold *truites* and young lettuce leaves.

In America almost every old country house built before the Civil War period has a little garden building referred to as "the summer house." Here when the weather was overpoweringly hot, especially below the Mason and Dixon line, the family fled for a simple meal, and for gentle zephyrs that would be revivifying.



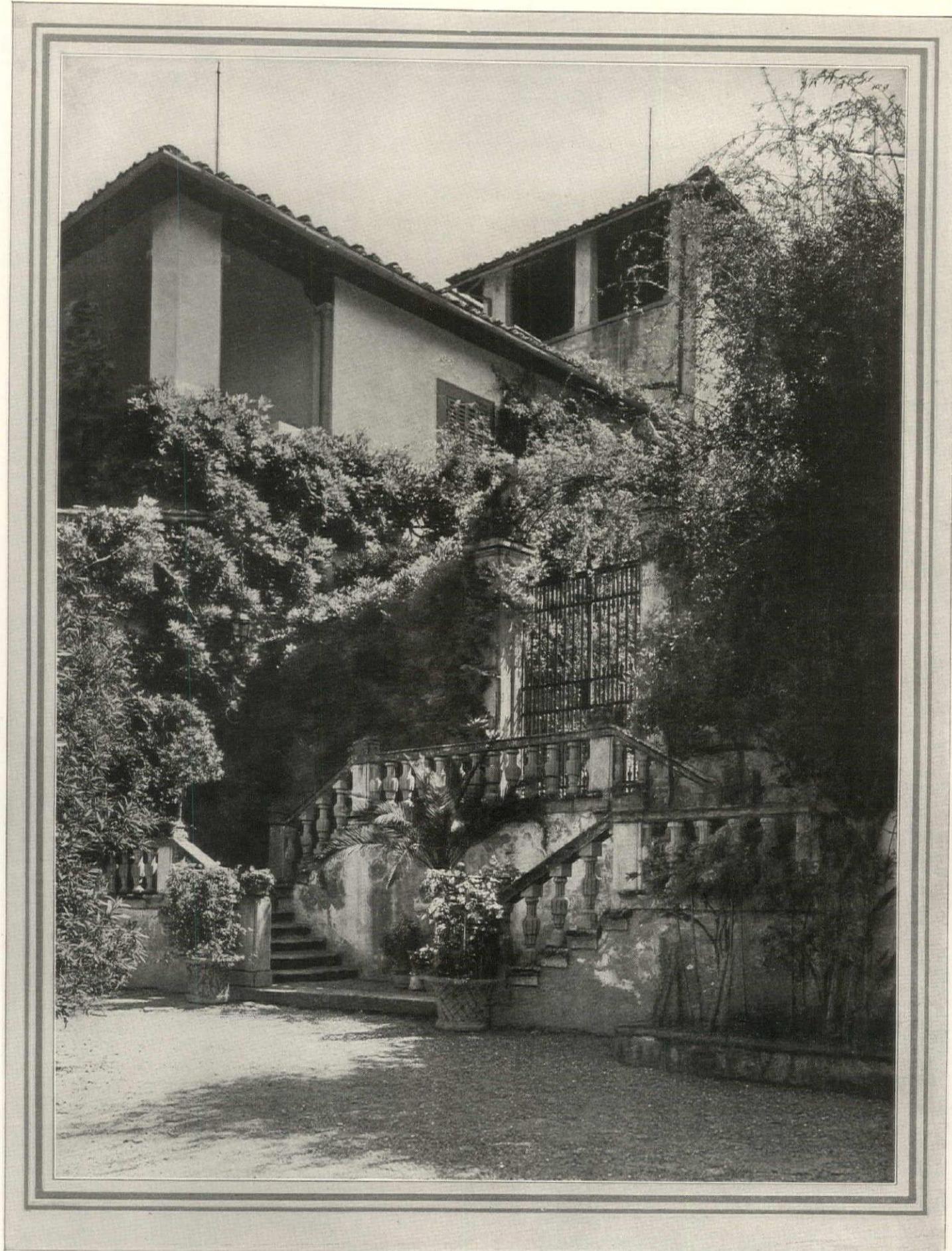
Good garden furniture is essential to the delights of living—and eating—out of doors. The garden of C. W. Jenkins, in the Country Club District of Kansas City, is screened for privacy and comfortably furnished with a pergola and bower and comfortable chairs

Even as far as northern New England there were these latticed places sheltered by grapevine and wistaria where the prim cousins of Cranford ladies drank a dish of tea and ate seed cake on stiffly starched occasions. If their fortunate owners repaired all these old summer houses not banished to the chicken yard and lonelier places and others, less fortunate, built many new ones, there would be a revival of the delicious fashion of eating out of doors. However poor the domain or scanty the fare, one could be sure of the soul-satisfying richness of the young emerald grass, the intoxicating scented air like a honeyed wine and, through the embrasure of lute-tipped leaves, a road winding away from any present weariness.

When one is studying the art of eating out of doors—beginning in blossom-time when there is a drift of petals in every wind—he will not want to sit in a stuffy dining room again unless driven there by the rain. Of course, there are certain conveniences to be thought out if the usual repast is to be more than a picnic. Servants possessing the swift movements of nymphs are in the minority, and the stretch from the kitchen to the delectable eating spot may be some distance. Therefore, a chafing dish had better hold a chief hot dish. The chairs that surround the repast must give ease and comfort. During the reign of Louis XVI. there was a famous Pavilion chair. It has a wide oval stuffed seat, stout short legs and a curved back that caught the human form. A set of these garden chairs was found recently at Loches in an old house near the collegial church. After a century and a half of the sun and rain that plays about a garden house they seem eager for another century of usage. An establishment in New York that copies beautiful and useful antiques has reproduced these chairs and they would be suitable for any garden house that has an 18th-Century feeling. A circular marble topped table, mounted on an iron column, is an excellent permanency in the garden room. A second shelf of iron arranged about 5" below the table top will be found convenient for the course that has not been served, and later, eating utensils that are soiled. A copy of an 18th Century wall fountain in lead or tin can be made of service or left as a beautiful or amusing wall decoration. When it comes to eating utensils, the crockery and needful knives, forks and spoons can be as fanciful as one wishes. Coarse white Deruta ware or the peasant productions of France or Bohemia are all delectable.

At times, when the garden is without color, we can bring out the service bespattered with much colored gaudy flowers, and at periods when every bed and path is in hectic bloom the cream colored things can come back again.

"We are discovering the medicinal beneficence of nature," says Dr. Modern, the enlightened descendant of Thackeray's Dr. Brighton. Many of us sleep out of doors, but few of us eat out of doors. Fresh air should aid digestion! Let us hie to a garden meal, and if we have no garden house, spread our sylvan banquet under a shade tree or near a protecting hedge.



ITALIAN GARDEN ARCHITECTURE

Formality in garden design can be traced back to the Italian. The parterre, the balustraded terraces, the flights of steps from one grade to another, the architectural character of the pergola, outbuildings and summerhouses all originally appeared in Italy. There was no attempt, as to-day, to make a garden after Nature. The early

Italians considered a garden something that man made, and consequently, laid it out and adorned it in the formal manner of the times. An example of such architectural formality is found in this garden in Tuscany, the garden of the Villa Passerini-Bartolommei, near Florence. Other views of it are shown on pages 64 and 65

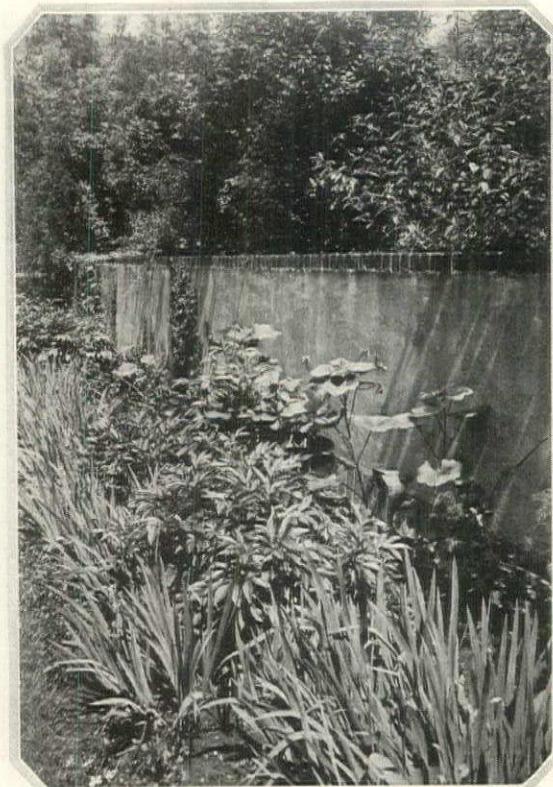
FLOWERS FOR FAR AND NEAR

*According to Their Color and Form Do We Place Flowers in
the Front of the Border or the Rear*

RUTH DEAN

WHO has not been surprised into a breathless, "What's that?" by a field of pure blue chicory glimpsed from a hurrying motor car? As likely as not you have insisted upon your husband's stopping the car while you descended to discover what produced that lovely blue veil, and to dig up a few plants to take home for the garden. Then, alas, you had to agree with his superior masculine comment; it was only another weed, for as you approached the field, the blue veil disintegrated, and you found very frail, fringy flowers on the straggliest of stems. Could you have transplanted the contents of the whole field to the meadow beyond your west window, the azure veil would have been yours each August, but chicory blue is indeed a beauty that vanishes with the grasping; it is meant to hang suspended in the middle ground, while the opaque hue and more substantial form of some

Flowers for foreground planting should have a pleasing habit of growth, as here below the wall.
Ruth Dean, landscape architect



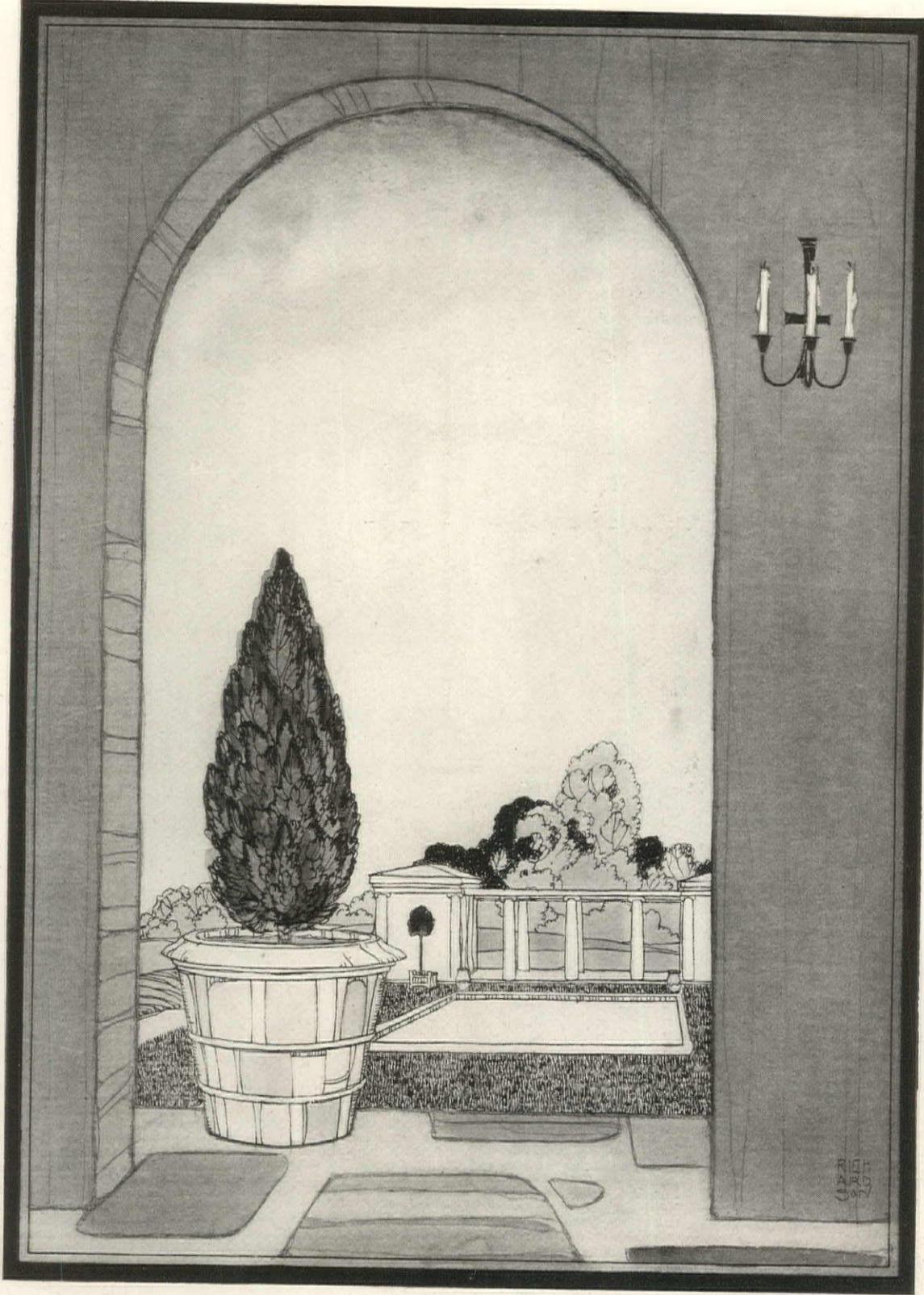
other flower fills the front of the picture.

Color and form are the two attributes which determine the position a flower may occupy to best advantage in the landscape, and of these, color is perhaps the first in importance. A color which is to be seen from a distance must have carrying-power, and carrying-power is dependent upon intensity and value, and to some extent upon hue. For example, certain glowing bits of color, seen from far off, are familiar to all of us—the flash of cardinal flower, the crystal blue of *Delphinium belladonna*, the fiery vermilion of scarlet sage, the last of these is the strongest for it is possible to find greater intensity in red than in any color, this being the reason for its universal use as a danger signal.

On the other hand, it is impossible to produce a very intense yellow; the attempts to strengthen it invariably resulting in a graying down of the color or in changing it to orange

The neatness of phlox is effective for either near or distant planting and can be successfully massed. Ruth Dean, landscape architect

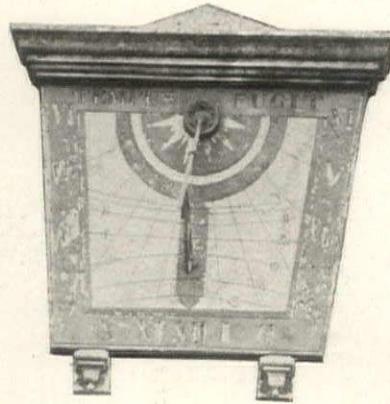




A pergola with flanking garden houses makes an excellent terminus for some gardens. Good architectural lines consistent with the house are essential. Pergola by Hartman Sanders Co., jar by the Galloway Terra Cotta Co., wrought iron sconce, the Howard Studios



There are three types of sundials used in garden decoration; the horizontal with a raised gnomon, such as that shown on the opposite side of the page, the perpendicular, displayed above, and the spherical, consisting of a combination of brass hoops on a pedestal



While most of the mottoes carved on sundials are banal—that life is short, time fleeting, and the loveliest things always the most transient—yet a sundial without a motto seems incomplete. On this old English design the motto reads: "Come Light Visit Me"

RIC
ARD
SOF

In England and on the Continent one often finds perpendicular sundials set in the wall of the house overlooking a garden. While doubtless accurate in the keeping of sun time, in this era of daylight saving such sundials now serve merely a decorative purpose



THE PALLADIAN WINDOW AND ITS USE

A Classical Motif, It Lends Itself Admirably to Various Modifications for the Enrichment of House Design

COSTEN FITZ-GIBBON

To be strictly accurate, the so-called Palladian motif is not Palladian at all. Palladio did not invent it, nor was he the first to use it. Neither did he employ it so extensively in his compositions that there is any particular reason why it should be inseparably associated with his name. However, the usage has gradually grown up and become strongly entrenched through centuries of application. Having made our bow to the cause of historical accuracy, it is now in order to define what the so-called Palladian motif is.

The Palladian motif consists of a triple division of openings, of which the central and wider one is arched, while the two flanking or side lights are narrower and have straight tops surmounted by lintels. In its full form the Palladian motif has four pillars or pilasters, with their appropriate capitals, separating the three openings. The pillars or pilasters likewise support an entablature, which traverses the side openings but is interrupted by the central opening whose arched top rises considerably higher than the crown mold of the entablature. Usually the half circle of the arch springs on a line with the top of the entablature.

The Palladian motif may be employed in the treatment of either doors or windows, but so far as architectural practice in America is concerned it is almost wholly applied to the latter. Its appropriateness, of course, is confined to architecture of Classic design.

The Palladian window imparts emphasis, enrichment and balance. Its presence is also intended to convey an appreciable note of elegance and formality. There are various ways in which these ends may be attained and the accompanying illustrations will serve to convey some conception of the diversities of treatment which may be accorded it with advantage in order to produce a telling effect.

The customary practice in America, in the 18th and early 19th Centuries, was to make the Palladian window a central or even a dominating feature, as may be seen in the case of the Chase house at Annapolis, or else to use two Palladian windows, one at each end of a façade, as flanking features and to balance an imposing central entrance. In England, on the other hand, are to be found numerous instances

of a much freer use. Both methods are quite justifiable so long as the ensemble is harmonious and no fundamental principles of composition are violated. It may be of interest to note that no less a person than Sir Christopher Wren did not hesitate to place one Palladian window directly over another where he wished to produce a certain kind of emphasis and where the interior requirements likewise were best served by such an expedient.

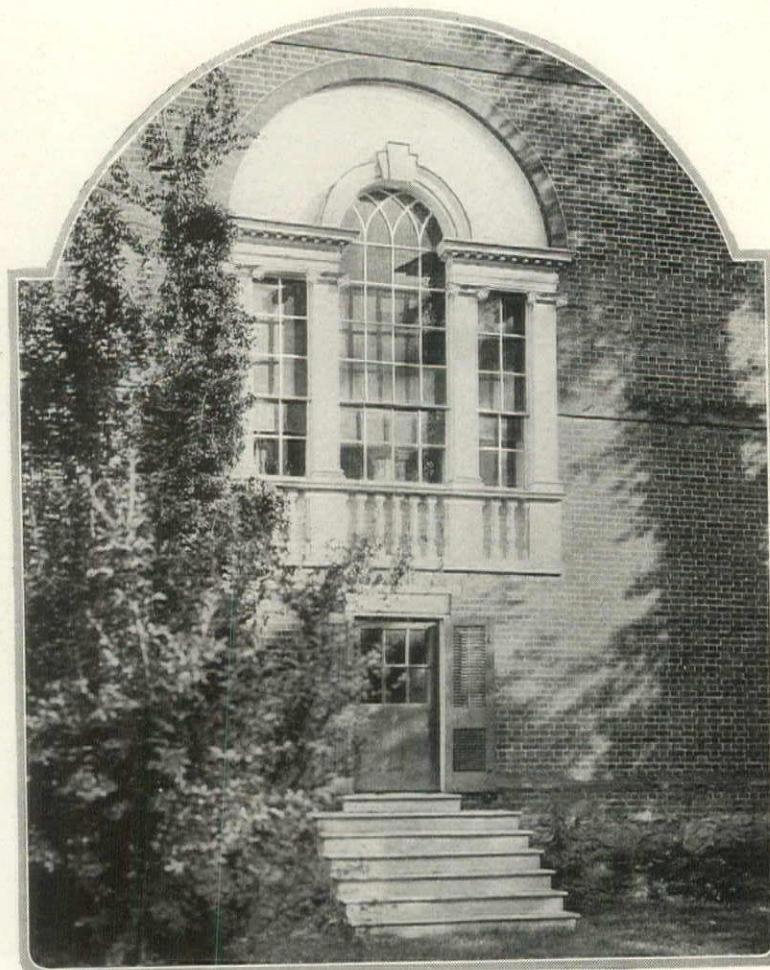
The Palladian window on the garden front of the Chase House, an especially engaging piece of composition, derives not a little of its charm from the broad unbroken wall surfaces by which it is surrounded. Every refinement of detail is thus displayed at its full value without any distracting influences to draw the eye elsewhere. Nothing is more disastrous to a Palladian window than crowding, especially if it contains much elaboration of detail. At Crawley House, in Bedfordshire, the four Palladian windows are fortunately separated by ample wall spaces and the design is reduced to the lowest terms, so to speak, all but the most essential items being suppressed.

The method of countersinking the triple window within a framing arch, which one often sees, not only invites attention to the details of the window itself but moreover ensures contrast of planes and the ever-changing play of light and shadow, subtle but potent agencies of enhancement.

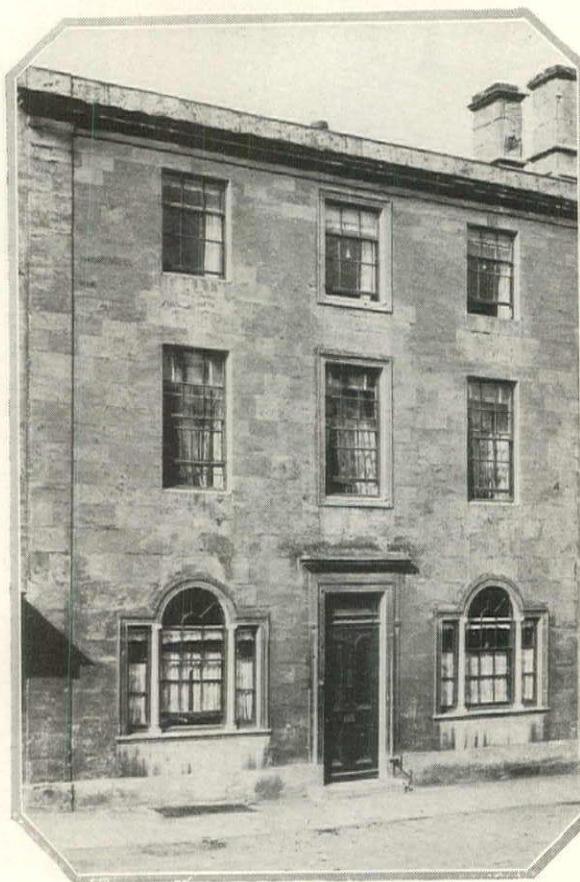
One of the most ingenious interpretations of the Palladian motif is seen in the street front of the Friends' School at York, a piece of 18th Century work by John Carr. Without actually using the Palladian motif, he has contrived to produce its effect by introducing an arched door within the portico on the first floor and by using an arched pediment above the central light of the window, although in neither case is the entablature interrupted, as it would be according to the strict definition of the Palladian motif.

Amongst the purely informal and domestic adaptations of the Palladian window

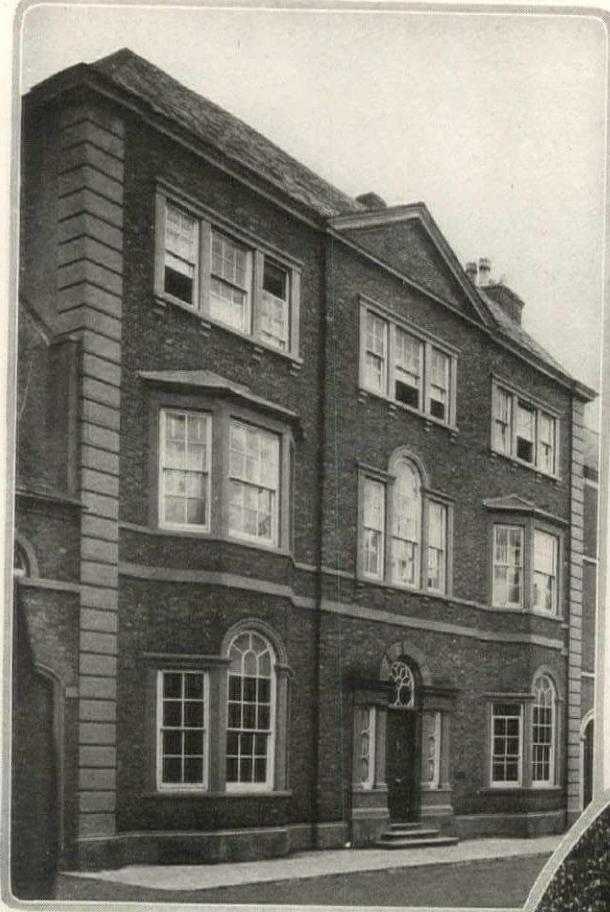
(Continued on page 88)



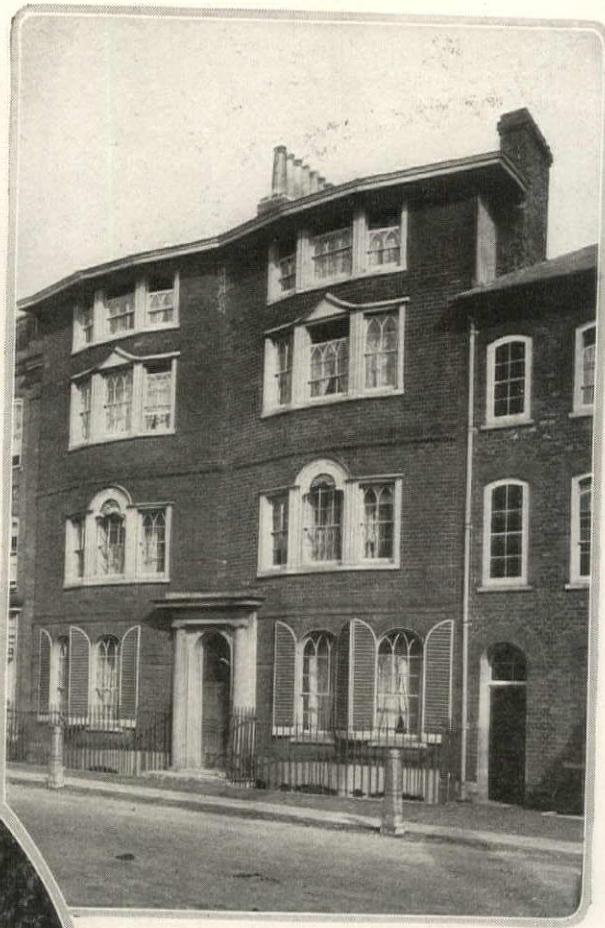
On the garden front of the Chase House, Annapolis, Md., the Palladian window is the central feature. The window is set in an arch and supplemented at the bottom with a balustrade



A rather free and delicate interpretation of the Palladian motif is found in this house at Chipping Norton. The entablatures in the side lights are omitted



In the doorway, the two flanking bay windows and the window above the door of this house at Pershore, Worcestershire, three different Palladian interpretations are used



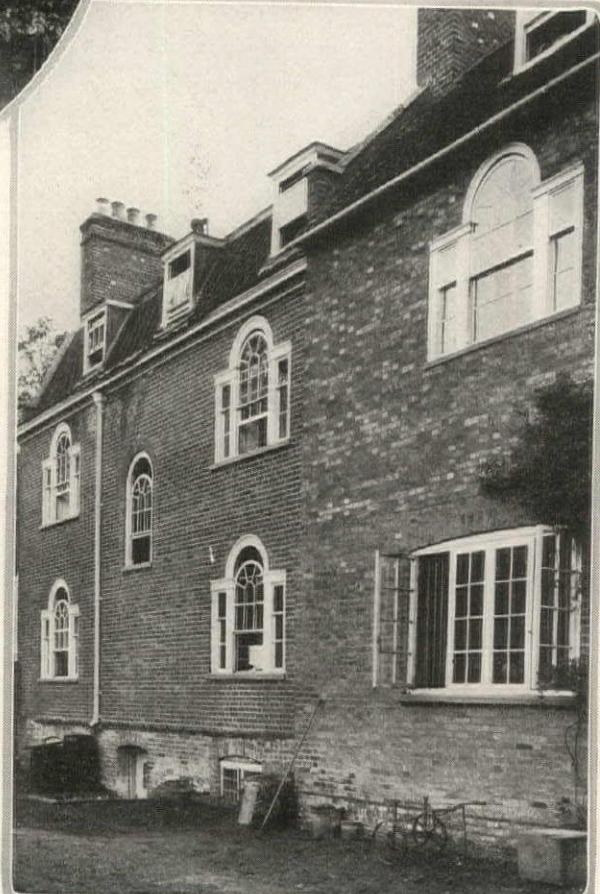
A strictly Palladian interpretation is found on the second floor of this 18th Century house, and, on the third, a Chinese version, with peaked middle lights



The rear of Crawley House, Bedfordshire, contains four symmetrically placed Palladian windows, which, while unusual from the outside, give the interiors much light



An ingenious application of the Palladian motif to a bay window is seen in this house at Buckingham. A dditional flanking lights make the window a five-light composition





Along the entrance drive are broad borders of iris, with wide plantings of tulips behind, and back of the tulips, massed peonies. The varieties are carefully selected for color harmonies.



On each side of the canal that runs down the middle of the vegetable garden are planted named varieties of a hundred sorts. This shows how attractive a vegetable garden can be made.



Tulips may be planted formally or in irregular drifts or shoals. The formal planting requires a formal setting; for such a country house as this an informal scattering is desirable

The cottage and Darwin tulips are far different in effect from the old-fashioned bedding types. They have a certain grace and airiness that puts them in admirable accord with the sunlit charm of May

TULIPS IN THE GARDEN OF H. G. HASKELL, AT COSSART, PA.

Where the planting is extensive, let there be a grassy pathway wandering through it. The quality of May-flowering tulips is such that it bears close contact as well as more distant attention





From a shaded corner of one of the intermediate terraces, with its cool fountain and marble figure glistening in the sun, its fragrant orange and lemon trees, set in huge pots,

one has a view over the rolling Tuscan landscape, across the villa-studded countryside with its wealth of contrasting colors to the skyline lost in haze

A TERRACED GARDEN IN TUSCANY

The Garden of the Villa Passerini-Bartolommei near Florence Is a Succession of Varying Levels

ROBERT M. CARRERE and MORGAN HEISKELL

THE old Italian masters of the landscaping art knew well the value of varying levels in a garden. Broken slopes and steep hillsides only challenged their ingenuity. They terraced the slopes, supporting them with retaining walls and capped them with balustrades. Even in the fairly flat districts they planned their gardens in such a manner as to avoid the monotony of one vast, unbroken level space.

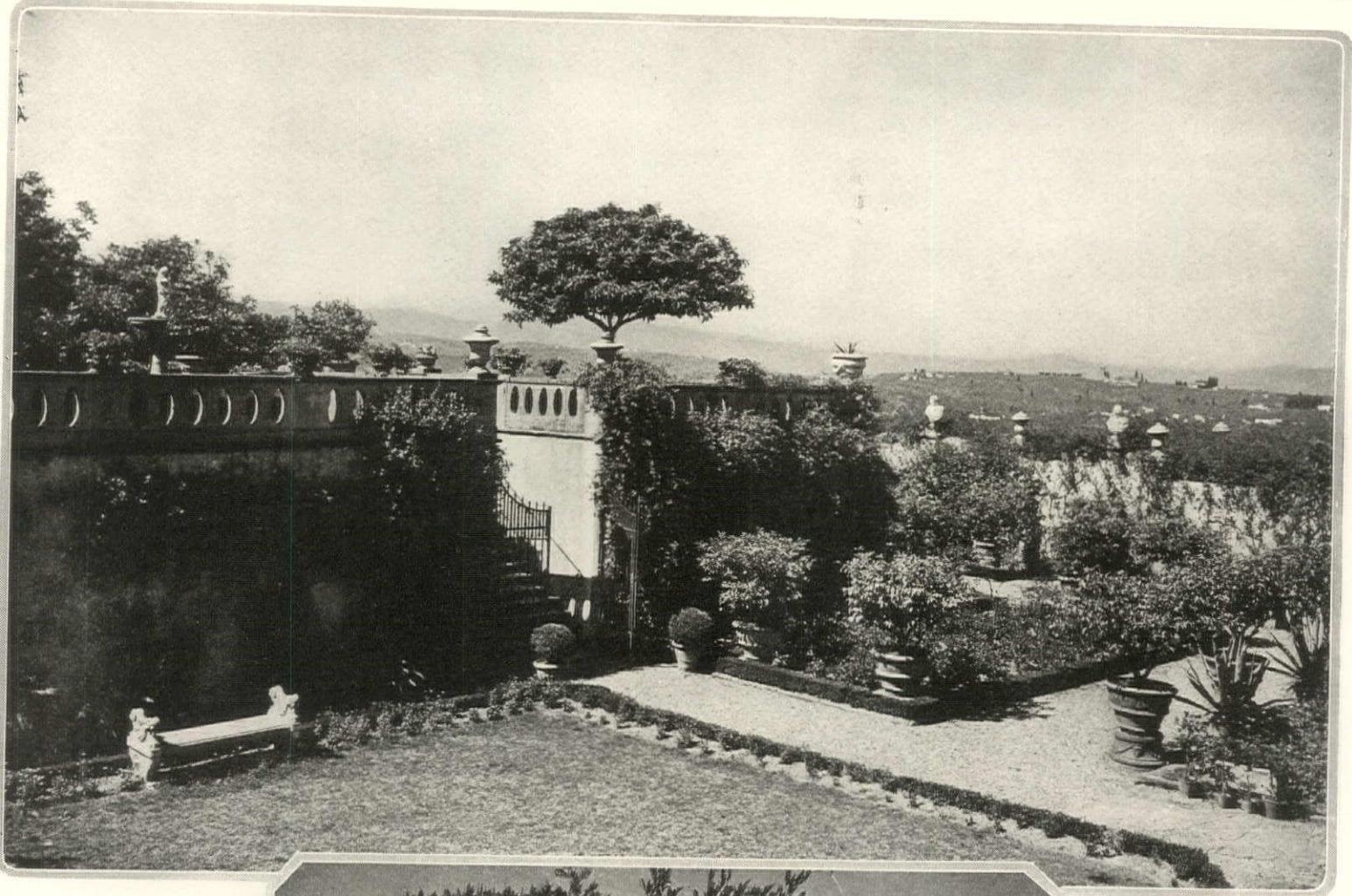
There were distinct artistic reasons for creating these different levels. With them it was possible for a garden to afford delightful contrasts; passing from one level to another has all the element of surprise and changing interest that one gets in passing from one room to another in a vast and beautiful house. Moreover, the terraces provided the requisite level spaces for

layouts of formal character, and the retaining walls, stairs and other garden structures afforded opportunity for the creation of decorative garden architecture.

The gardeners of this time usually showed the influence of Classicism in their designs. There was no effort made to copy the confusion and tangled disorder of Nature. In fact, their ideal for a garden was quite the opposite. This formal, architectural character of the gardens that remain stands in sharp contrast with the naturalistic planting that has become so popular in England and America today. The Italian garden was an extension of the house. The same sort of architecture served for both, thus giving harmonious unity to the entire development. As in all countries where one can live comfortably out of doors, the Italian garden is



The house is typical of the moderate size Tuscan villa built into the terraces on the hillside of the Arcetri. One approaches it through this avenue of potted trees



Each level gives opportunity for the development of a formal garden. On this terrace there are broad, box-edged walks with potted trees for accent

a supplementary house, a house with *al fresco* rooms walled in and yet commanding views of the outer world.

These two facts—the varying levels and the architecture—must be understood if one is to grasp the great beauty of the terraced Tuscany garden shown here, the garden of the Villa Passerini-Bartolommei, near Florence.

The very nature of the countryside in the beautiful valley of the Arno around Florence abounds in natural garden sites. On the abrupt slopes of Arcetri, with its unsurpassed view over the historic city that has been the birthplace of so much of the world's romance and art, Nature has to be aided by the construction of terraces, without which there would not be sufficient level space to satisfy the Italians' love of formal gardens. The entire hillside is a succession of terraces formed by



The top garden terrace commands this view over the valley of the Arno and the domes and towers of incomparable Florence at one's feet

high retaining walls that not only hold back the soil but form a decorative support for festoons of flowering vines, climbing roses and fruit trees espaliered in a variety of amazing patterns.

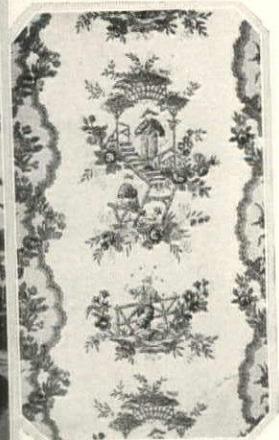
There is always a considerable difference of level between these terraces, necessitated by the steepness of the hillside and the desire to have an unobstructed view over the trees of the terrace below. This difference in levels has been one of the chief causes for the successful development of the garden stairways in Italy. There are, of course, the magnificent triumphs of architectural and sculptural skill in the show gardens of the great villas that every one knows, with their statues, cascades and complicated plans, but even in the smaller and more modest gardens there are always to be found stairways of surprising individuality and charm.



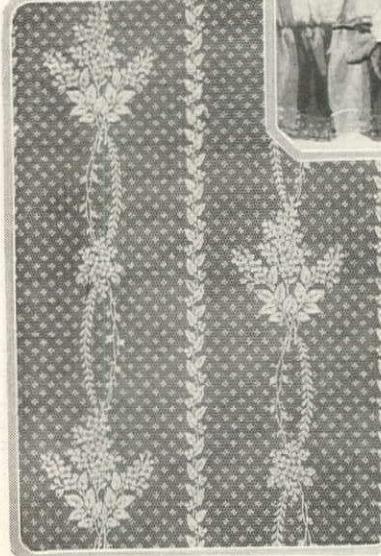
Gray-green ivy leaves on a pale gray and white background makes an ideal paper for a hall. 75c a roll



A room needs very little else in the way of decoration if the walls are hung with so attractive a scenic paper as the *Isola Bella* that tells its tropical story in a series of enchanting colors. In the room above, the woodwork is painted pale green. Gertrude Brooks was the decorator



Quaint Chinese figures in deep rose and blue are decorative against a ground of pale buff. \$2 a roll



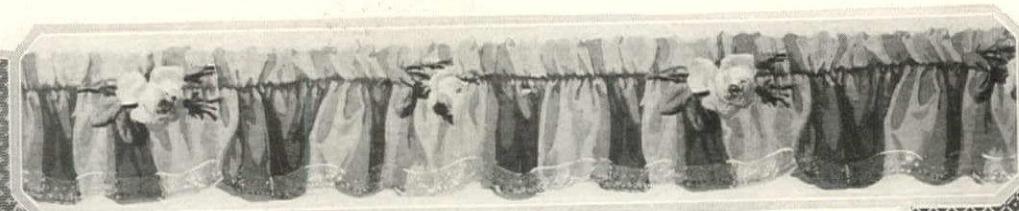
The paper above is very delicate and would be charming in a bedroom. Pale blue or pink ground, design in white \$2

A border like an old valance comes in blue, green or lavender. 50c a yard



(Left) Exquisite French hand-blocked paper. White ground, design in very pale pink and blue \$3

An early Victorian paper has a tufted gray background with blue cord and tassel design \$5



Border in lavender, pink or green, 25c a yd. Bowknots, 30c each



The stiff diamond pattern above is very quaint and effective. In white on a rose or soft green ground, \$1 a roll



OLD-FASHIONED WALL PAPERS

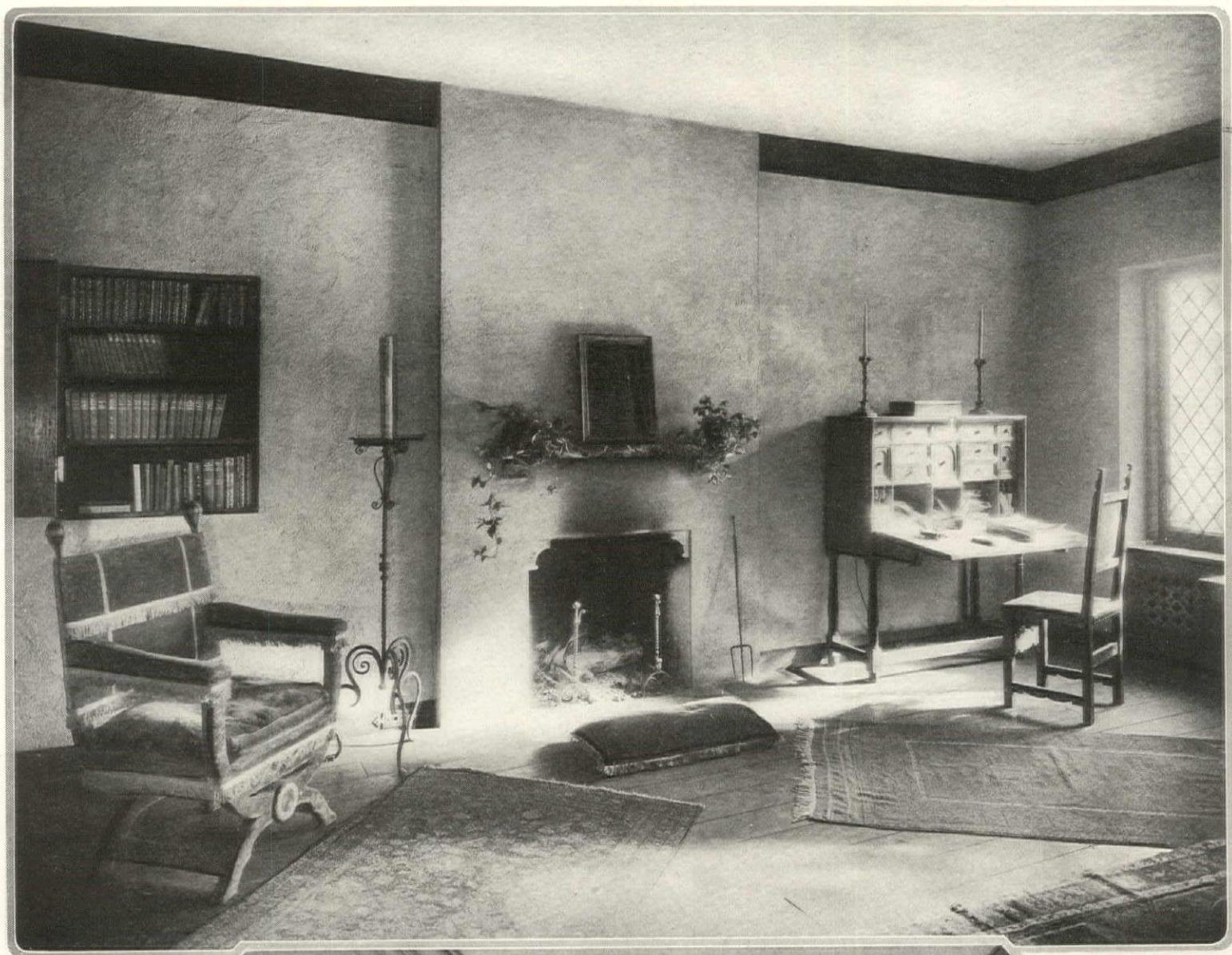
Which may be purchased through the House & Garden Shopping Service, 19 West 44th Street, New York City. Wall paper rolls contain eight yards

Like an old valentine is this paper with its waving gray lines, stripes in blue or green and flowers in pale nasturtium shades, \$2

Very lovely for a country house bedroom is this old time paper that has a buff ground, blue stripes and deep pink flowers, \$1.50

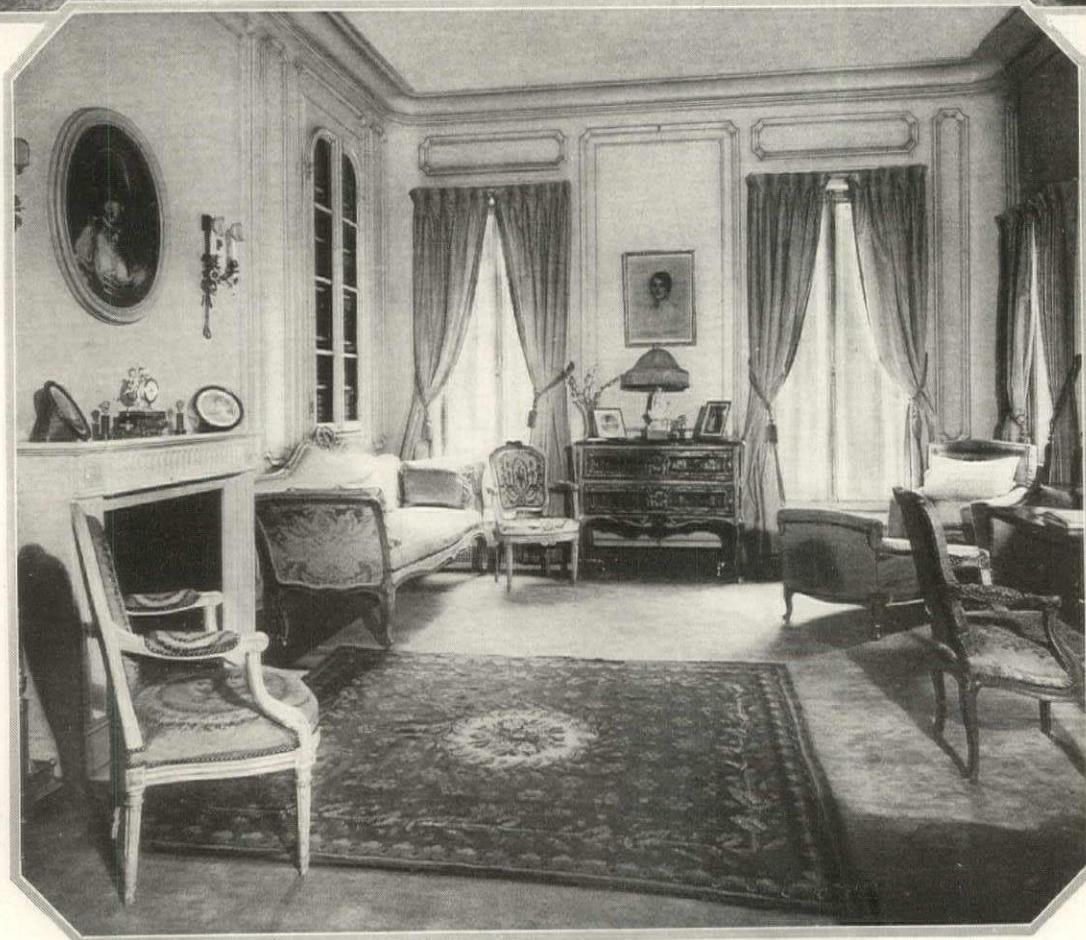


A LITTLE PORTFOLIO OF GOOD INTERIORS



Harting

The austerity of the early Italian style has been reproduced in the living room in the New York apartment of Robert B. Bowler. Rough yellow plaster walls, wide oak floor boards, a cupboard bookcase, wrought iron and pieces of the period are elements in the creation of this room



For contrast, is this French living room in the New York apartment of Mrs. Fal de Saint Phalle. Pastel shades are used—ivory paneled walls, hangings of rose faille, a chaise longue in pale green taffeta, chairs in petit point, sofa in yellow brocade and a carpet of pale gray



Hewitt



The solarium on the roof of the New York home of Thomas W. Lamont has been decorated and furnished in a manner that is constantly reminiscent of the country. At one side is a fireplace made of three rough gray-stone slabs. A brick chair rail and baseboard run around the room, enclosing a low plain plaster wainscot. The floor is of flat flagstones covered with fibre rugs. Reed furniture, Lancashire chairs and a gate-leg table, chosen and arranged for comfort, are disposed about the room. Walker & Gillette, architects

The great beauty of the room lies in the mural decorations by Warren Davis. On a pale gold background have been painted birch trees and foliage in greens, violets and blues. The delicate dancing figures that give the room a constant air of spring, are in these same soft tones. The rest of the room harmonizes with this color scheme. The reed furniture, for example, is pale green upholstered in maroon taffeta shot with gold. The bricks of the chair rail and baseboard are stained violet, through which the red shows



As this room is often used for breakfast and luncheon, even for business conferences, there is a table at one end, a convenient gate-leg table with rush-bottom, Lancashire chairs accompanying it. The dark wood of these pieces makes a contrasting note with the other colors in the room. To harmonize with the murals the woodwork has been painted a darker shade of gold than the walls. The grill over the radiator is painted dull green and the corn colored silk curtains filter the light to a golden glow. Plants stand on the radiator covers

The color effects of the room have been carefully studied by the artist, and nothing is permitted to disorganize the scheme. The light from outside, at some times of the day, is reflected from surrounding brick walls and comes into the room a distinct violet, which tones perfectly with the violets in the mural decorations. Mirror glass in the small side windows of one of the corners repeats the painting on the adjoining wall. The simplicity of the furnishing also helps to give the murals the prominence they deserve



A SMALL COUNTRY HOUSE IN THE COTSWOLDS

*This 17th Century Design, Influenced by Classical Traditions Which Were Then New,
Is Now Remodeled and Enlarged in the Ancient Style*

H. D. EBERLEIN

WYCHWOOD, at Broadway in Worcestershire, presents us with the spectacle of an old house, interesting in its own right to begin with, restored and enlarged in a sympathetic and consistent manner so that its pristine interest is enhanced by the transformation. It was built during the second half of the 17th Century when the fame of Inigo Jones and Sir Christopher Wren had penetrated to the Cotswolds and impressed the imagination of the local artisan or of his employer.

The house as it stood before restoration consisted of the rectangular mass, now constituting the main portion of the road front, and an ell projection back of it. The other parts were added when the dwelling was restored a year or two ago.

Wychwood, like all its fellows, was built of the native Cotswold stone and roofed with stone tiles. There compliance with the long-established local tradition ended, at least so far as the road front was concerned. Bent on pursuing the new mode, the builder carried the old Gothic drip-stone molding all the way across the front as a belt course between the first and second floors. He also

placed it in such a position that it gave the second floor externally a fictitious appearance of height which, in reality, it did not possess inside, thereby emulating the Italian notion of the basement with the *piano nobile* above. It is illuminating to follow the process of Classic adaptation employed by this untutored local builder.

Still intent upon the new style influence, he spaced his windows symmetrically, abandoning the old range of mullioned casements and using taller, narrower openings divided vertically by

one stone mullion, an approximation to the *croiséé fenêtre* type that had already been used in a great house not many miles distant. Next he added dormers which he topped with the characteristic and time-honored Cotswold ball finial.

When this native builder came to the sides and back he reverted without any compunction to the traditional mullioned range of casements and used roughly squared rubble masonry of the local sort. The mixture, as it turned out, was not in the least incongruous. Front and posterior parts harmonized admirably.

In the south block, which is entirely of new construction and contains a living room occupying the whole first floor, the windows of the upper part are of the same sort as those exhibited by the old road front while the first floor windows are *croiséés fenêtres*, thus fulfilling the original builder's ideal nearly three hundred years after his death. The mullions and architraves are, of course, of Cotswold stone. In the first floor windows the glass in the divisions above the transoms is stationary; all the divisions below the transoms have casements which open wide.



The living room in the new wing is furnished with English pieces of the 17th and 18th Centuries. The walls are of white plaster

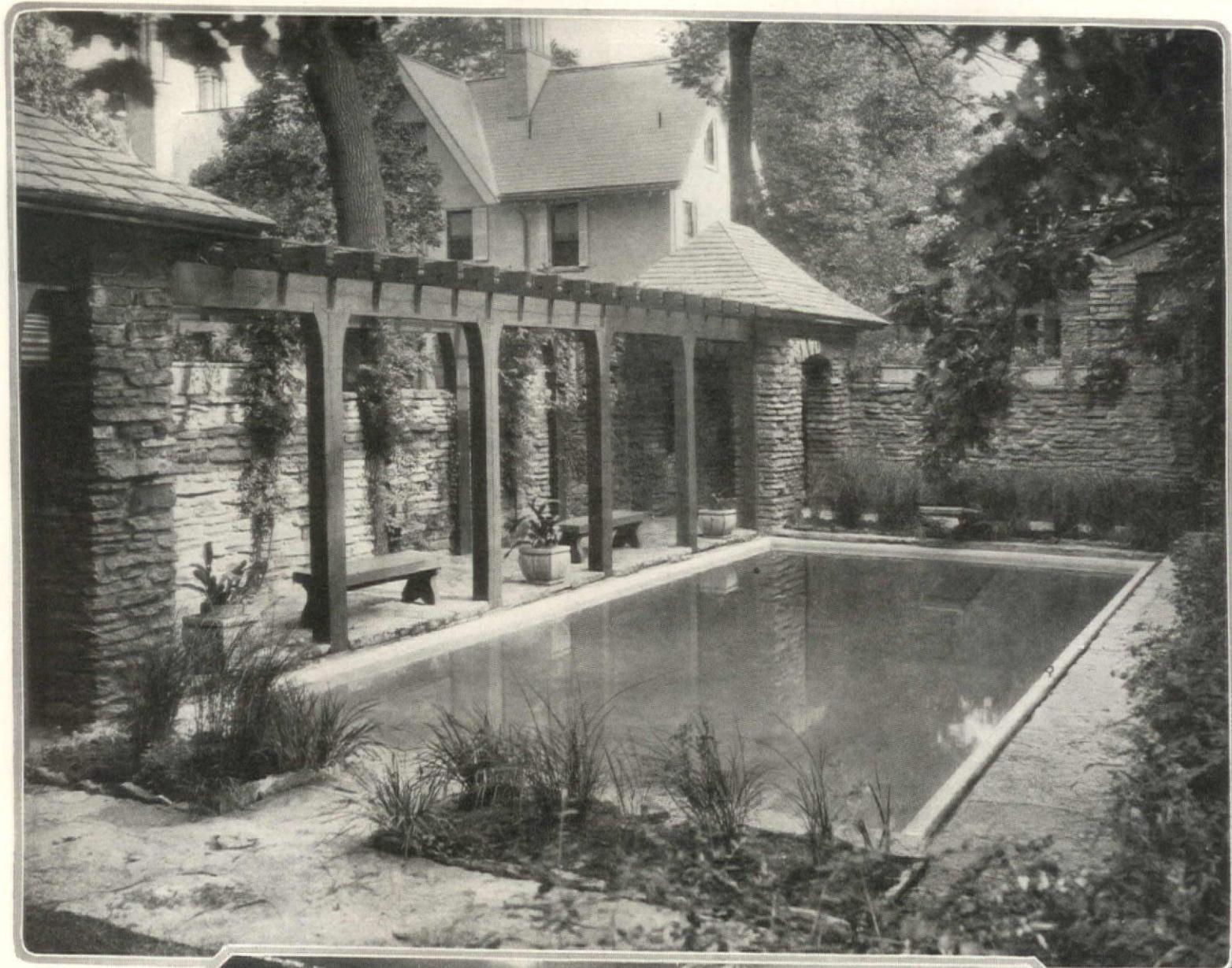


In the dining room, the oak refectory table, dresser and 17th Century spindle back chairs are in keeping with the Cotswold fireplace

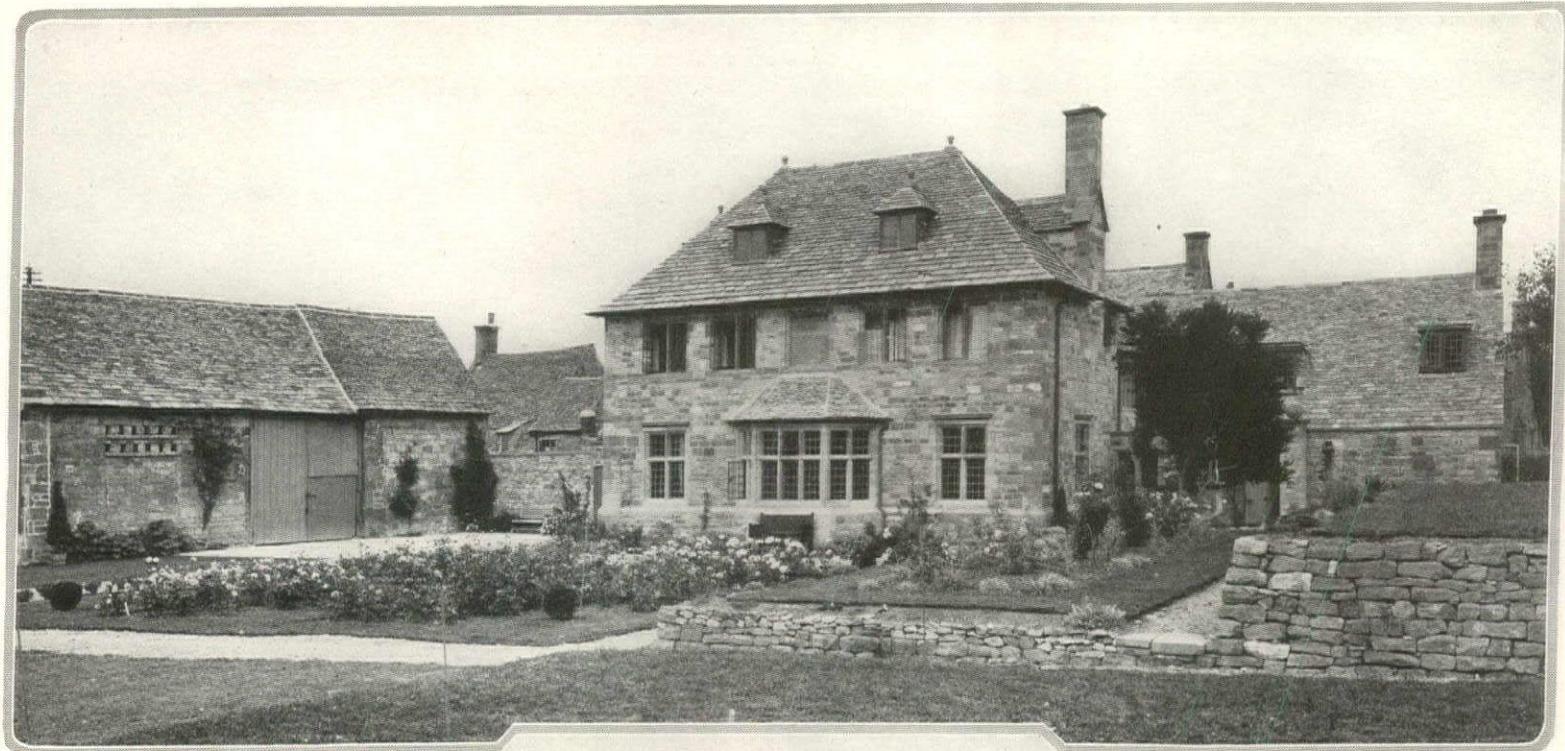
The fireplace in the living room is made from native Cotswold limestone in a traditional pattern, with a raised hearth and iron fire-back



A SWIMMING POOL IN A CITY GARDEN



The swimming pool of Frederick J. Flach, at Cincinnati, Ohio



From the garden front can be seen the new addition. To the right is a view of the west end with its espalier pear tree

The service wing is added to the east of the main portion of the old house and is so contrived that while it is readily accessible for service, it is an unobtrusive member of the composition. From the road its aspect is one of modest charm.

One of the most agreeable features of Wychwood is the ample living room, already mentioned as occupying the whole ground floor of the south block, abundantly lighted by large windows east, west and south, those on the south commanding the entire garden and the orchard and hills beyond. On the side of the room, directly opposite the



The road front is the old part of the house, built in the 17th Century, with many features that were then new

bow window is the fireplace, of a simple but striking traditional Cotswold design.

In the process of remodeling and enlargement the architect, Mr. Andrew N. Prentice, has been careful of the old fabric and perfectly sane in the spirit of his amplification. While following the precedents afforded him by the nucleus upon which he had to work, he has succeeded in creating a thoroughly comfortable and convenient modern house and has achieved, by logical and straightforward methods, that quality of charm for which the old structure was conspicuous.

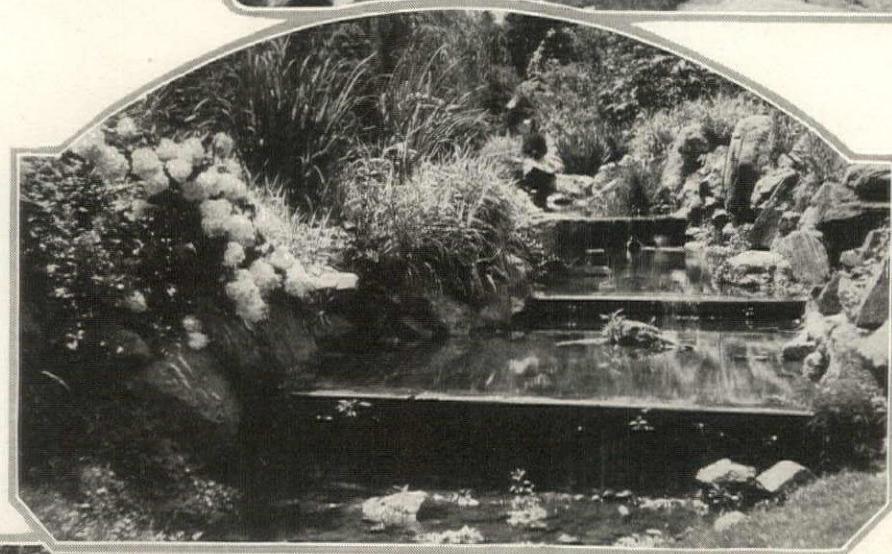
THE ROCK GARDEN OF AN AMATEUR

RICHARD ROTHE

THE steadily growing desire among home owners for sharing in the work of elevating the standard of their outdoor surroundings seems in many respects to be a most propitious sign of a healthy advance. Rock gardening especially proves a field alluringly rich in opportunities for the exercise of personal ingenuity. However, rock gardening selected as a hobby by a mentally hard-working home owner does not spell immediate relaxation. I have seen it mounted by business men, financiers, scientists and professional people and, at the beginning, it usually proved as capricious as a wild broncho. As a rule, it takes a nature lover endowed with subtlety of vision and originality of ideas to tame it, but once broken, it is apt to carry its master into a real wonderland of joy.

Much depends upon whether we have been able to conceive the holiday spirit of nature, when she is playing along the mountain slopes or down in the rocky ravine with its gushing springs and streams. Moreover, it proves of the utmost advantage if we study her various moods when she inaugurates her festive seasons upon wide ledgy plateaux in the invigorating atmosphere of high altitudes.

A naturally undulating site traversed by a little stream made possible the development of water features that add immeasurably to the charm and atmosphere of the garden



The rock garden of William H. Llewellyn, at Phoenixville, Pa., shows clearly the influence of the owner's Japanese studies, though there is evident no special preference for the native flora of Japan

Witnessing the indescribable radiance of her floral carnivals right at the beginning of the growing period strengthens our faculty of feeling what combinations of trees, shrubs and flowering herbs apply best in producing desired effects.

Rock garden building leads to concentration of thoughts and energies. We begin our work

with a clear idea in regard to character and rough outline of the whole and soon learn to realize the importance of certain details; for instance, stair work, as a means to heighten the beauty of the total picture. Engaging in rockery building as a pastime never leaves a true devotee without some new and enticing detail problems in his mind.

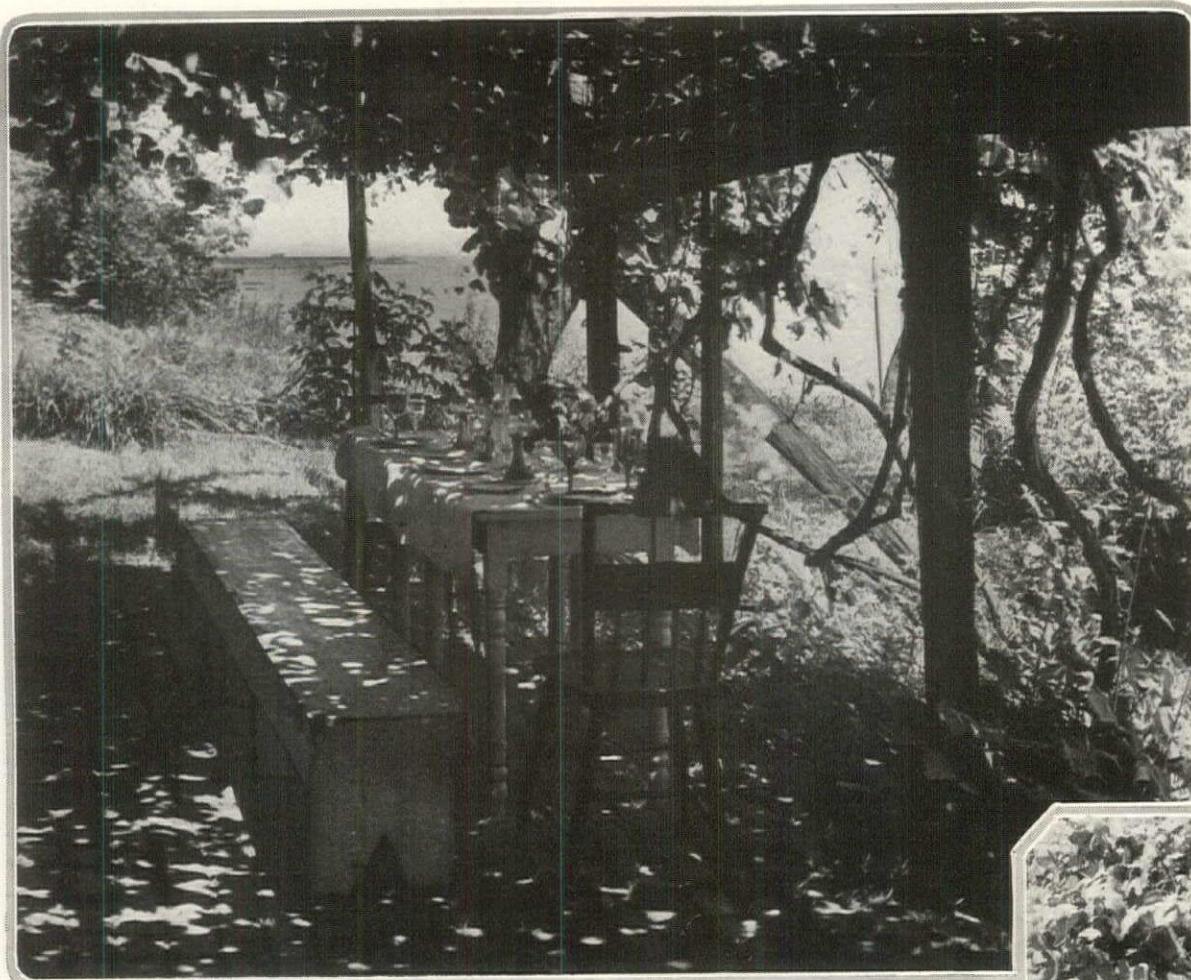
As a matter of course, results growing out of amateur activity are bound to differ widely. Studying the pictures taken in the rock garden of William H. Llewellyn in Phoenixville, Pa., enables us to anticipate happy surprises for the future. They represent an object lesson of what a connoisseur of the countryside is apt to accomplish today when he becomes his own landscape architect.

Mr. Llewellyn had the advantage of an undulating ground formation to work with. For

(Continued on page 96)



The Japanese influence is particularly noticeable in the little bridges across the stream and the stone lanterns placed here and there. The whole garden covers an area of about two acres



Bonk

This old world offers many pleasant places on which to eat. One may fare sumptuously off pressed duck on the Quai de la Tournelle or dine riotously with Bohemians in Soho. But there's much to be said for dining under one's own vine through a lazy, late summer noon. The air is rich with the heavy odor of purpling grapes and the aroma of the earth baked in the sun. Across the table lies a pattern of light and shade. One is fortunate, indeed, to have such a reposeful spot for dining

However crude the arbor, if it is shadowed by a vine—preferably an old grapevine with a twisted stem—then one has the most desirable kind of pleasant garden spot



With a little ingenuity a shady spot can be created even in a city garden. Here a rear porch made possible this lower terrace. The foundations are latticed and in the farther wall two openings are closed with grills. This is in the garden of Mrs. M. L. Marsh at Chicago

PLEASANT PLACES IN WHICH TO SIT

*Garden Spots of Repose for
Summer Days*



Gillies

Every garden should have its chapel of ease, where one can sit down and sit still. It may be an arched terrace, paved with broad flagstones, a part of the house such as this. It should be furnished with lounging chairs and well-pillowed couches that are conducive to repose and it should command such a view as will please the eye and give out the sense of peace



The best sort of view is a vista of a garden and wooded hills. Between the cool shadows of the spot in which one sits and the stretch of lawn and flower beds outside, between the immediate color and the distant massing of foliage, lies a world of refreshing contrasts. These two views are from the home of Philip B. Henry, Scarborough, N. Y. Bertram G. Goodhue, architect

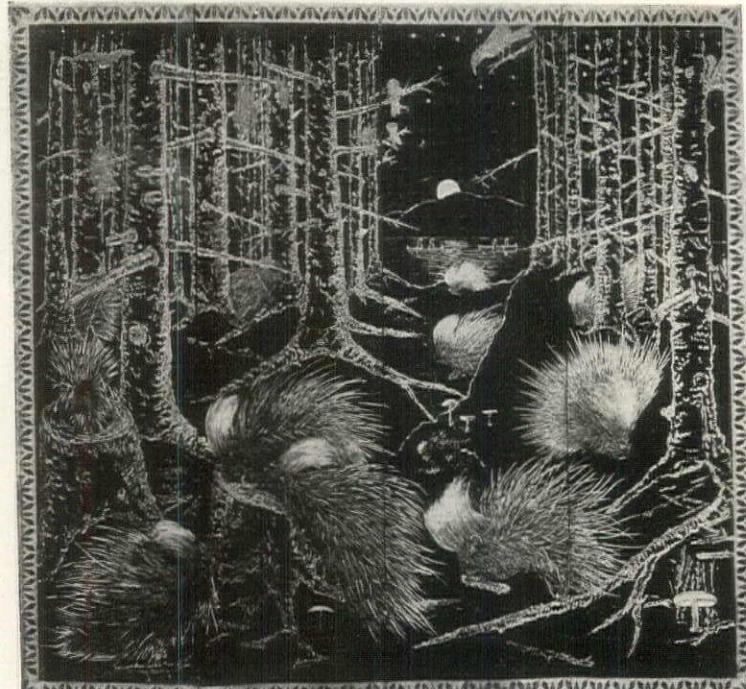


Mr. Chanler's screens are highly decorative and deserve to be given prominence in the furnishing of a room. This design has a sweeping movement that commands instant attention

SCREENS BY
ROB'T W. CHANLER

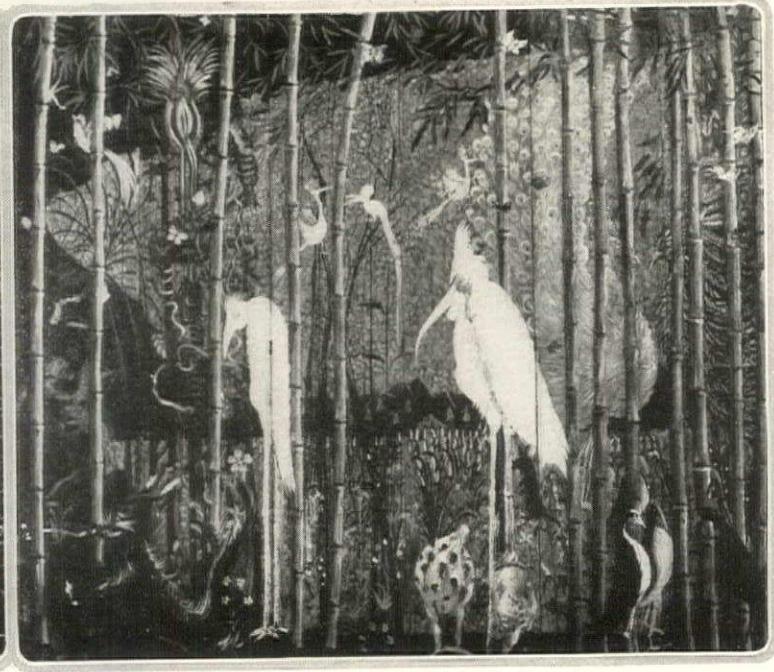
Courtesy of the
KINGORE GALLERIES

"Before the Wind" is the title of the four-fold screen shown below—a fleet of picturesque galleons in glowing colors driven before the wind through a brilliant, choppy sea



A study in cream and brown is this screen. A forest foreground filled with bristling porcupines is in fantastic contrast with the moonlit tranquil background of canoes and lovers

The fantasy of Alice in Wonderland and the exotic colors of a jungle seem to be combined in the screen below. The outstanding features are two snow-white, melancholy cranes



THE GARDEN PESTS AS THEY APPEAR

INSECT OR DISEASE	IDENTIFICATION	WHEN TO LOOK FOR	ATTACKS	CONTROL
IN THE VEGETABLE GARDEN				
Cut-worms	Sluggish, fat, brown soil worm, $\frac{3}{4}$ " to 2" long with stripe along side; works at night.	Through season, mostly April to June, cutting off young plants and seedlings. Dig around cut-off plant.	Especially cabbage, cauliflower and tomato plants.	Poison bait before planting, and give plants protection with 4" paper bands 1" in soil; also hand picking.
Aphis or "plant louse"	Small, green or black, soft bodied flies about $\frac{1}{8}$ " long, congregating in large numbers.	Throughout season, especially on half-grown plants and in dry weather on under side of leaves.	Cabbage, cauliflower, lettuce, peas, etc.	Contact spray, two or three applications, at intervals of a week or ten days, especially against under side of foliage, and on folding leaves.
Potato beetle	Common striped beetle or bug $\frac{1}{2}$ " long.	Through season, first on earliest sprouting potatoes; three broods.	Potatoes, egg-plants, tomatoes.	Spray or dust with arsenate of lead or Paris green; hand picked from egg-plant.
Flea beetle	Minute, black, active jumping beetle.	Mostly in May and June on seedlings; leaves punctured.	Potatoes, tomato, cabbage group, turnips.	Bordeaux mixture and arsenate of lead; tobacco dust on seedlings.
White grub	Large, soft, white, repulsive grub or worm, feeding on roots under ground; $\frac{1}{2}$ " to $1\frac{1}{4}$ " long.	Through season; especially numerous in newly plowed sod ground and moist places.	Strawberries especially; also corn, potatoes, etc.	Plowing late in fall; summer following; trapping adults (May beetles); destroying grubs and re-setting affected plants.
Root maggot	Small white worm or grub $\frac{1}{4}$ " to $\frac{1}{2}$ " long.	Through season; first indication wilting of plants without apparent cause.	Onions, cabbage, cauliflower, turnips, etc.	Protect cabbage group with tarred paper guards; poison paper for adult flies before laying eggs; burn infested plants.
Corn borer	White, smooth borer, 1" to $1\frac{1}{4}$ " long. Second brood in early fall.	Moths appear in May, caterpillars soon after.	Corn, chard, beets, etc. Lives over on burdock, etc.	Keep garden surroundings clean; burn old stalks, weeds, etc., in fall.
Cucumber beetle	Small, very active, black and yellow striped beetle, $\frac{1}{4}$ " or so long.	Through season, especially as vines begin to run, and in dry weather.	Cucumbers, melons and vine crops.	Arsenate of lead with Bordeaux mixture. Screen young plants and sprinkle with tobacco dust.
Squash bug ("stink" bug)	Dull black, flat, very active beetle with long legs, often moving backwards or sideways when disturbed; $\frac{1}{4}$ " to $\frac{3}{4}$ " long.	Usually appears first late in June, remaining until cold weather. Young hatched from brown eggs on under side of leaves; resemble large aphis.	Squash, pumpkins and other vine crops.	Trap old bugs under shingles and destroy; spray young with nicotine or kerosene emulsion; screen young plants.
White fly	Minute, tenacious, white winged fly, congregating in large numbers until disturbed.	Through warm season, especially under dry or overcrowded conditions; prevalent in frames or greenhouses.	Tomato, cucumber, etc.	Spray with nicotine or kerosene emulsion for young which resemble lice on under sides of leaves; tobacco dust as a repellent.
Thrip	Very minute, cause yellowish appearance or twisted leaves.	Throughout season, especially on neglected or backward plants.	Onions and leeks.	Thorough, forceful spraying with kerosene emulsion or with nicotine.
Asparagus beetle	Active, yellow spotted beetle, $\frac{1}{2}$ " long.	June-Aug., especially on new growth.	Asparagus foliage.	Arsenate of lead; cut and burn stalks in fall.
Melon louse	Small green aphids. See Aphis.	Throughout season, usually first in May or June; leaves curl up abnormally.	Melons, cucumbers and other cucurbits; strawberries.	Carefully remove, bury or burn infested parts of plants; spray as for aphis.
Onion thrip	Minute, active, whitish insect barely visible to the naked eye, lodging especially down between leaves.	Through season, especially June to August; onion tops twisted and curled, prematurely yellow.	Onions and leeks.	Nicotine spray forcibly applied; kerosene emulsion.
Tomato worm	Large, green horned worm, often several inches long.	From mid-summer to early fall; strips foliage clean, conspicuous inroads.	Tomato and tobacco mostly.	Arsenate of lead; hand picking into can or pail, and late fall plowing.
Rust	"Rusting" or yellowing of foliage or stalks.	Through season, especially late June to August.	Various vegetables, especially celery, beans, asparagus.	Avoid working when foliage is wet; successive sprayings with Bordeaux. On maturing celery use ammoniacal solution of copper carbonate. Spray with Bordeaux every week or ten days.
Mildew	Whitish coating or spotting of the foliage, spreading rapidly.	Favoring conditions same as for blight; also crowded foliage.	Cucumbers, melons, lima beans, etc.	Spray with Bordeaux at or before first signs and repeat frequently to keep all growth covered.
Blight	Usually a yellowing or spotting of the leaves, progressing very rapidly.	Throughout season, especially in muggy weather and low, closed places.	Potatoes, beans, celery, cucumber, etc.	Bordeaux mixture, removing surplus foliage, and in the case of fruits that touch.
Leaf spot or rot	Spots in leaves, stems, or fruit turning brown or black.	Throughout season, especially in warm weather after rainy spells.	Tomatoes, beans and many others.	
IN THE FRUIT GARDEN				
Scale, San José	Minute, yellowish, sucking insects covered with small shell or scale, the size of a pin-head; presence indicated by gray scurvy appearance of bark, and minute red rimmed spots on fruit.	Throughout season; multiplies with extraordinary rapidity.	Apple and other fruit trees.	Dormant sprays in early spring or fall, using lime sulphur, miscible oil or kerosene emulsion.
Scale, oyster shell	Dark brown scale like elongated oyster shell about $\frac{1}{8}$ " in length, the young resembling active whitish lice.	Throughout season, young hatching in May or early June.	Apple and other fruit trees.	Same as for San José; also nicotine or kerosene emulsion as soon as young hatch.
Apple aphis	Bright green aphids.	Throughout season, especially on the sides of new leaves.	Apples, peaches, plums.	Dormant spray before leaves come out; nicotine spray on young foliage.
Scab, apple	Causes dark colored spots on leaves or fruit.	Throughout season, spreads most during spring.	Apple and pear.	Spray with lime sulphur before blossoms open, after blossoms fall, and two weeks later; burn leaves and twigs in fall.
Caterpillar, tent	Striped caterpillars in large masses in webs or "tents."	Early in spring; "tents" at first inconspicuous, gradually enlarged.	Apple, cherry, and other trees.	Destroy egg masses in winter; wipe out tents as soon as visible with kerosene smudge in spring.
Bud moth	Light brown caterpillar, head and legs dark.	Early in spring before buds open.	Especially apple buds.	Arsenate of lead spray for matured worms.
Currant worm	Green worm with black spots about 1" long.	Before blossoms open, usually first on lower leaves.	Currant and gooseberry.	Arsenate of lead when leaves appear, before buds open.
Coddling moth	The "mother" of wormy apples; moth is small and chocolate colored; worm hatches on the outside, usually in blossom end, and eats in; about $1\frac{1}{2}$ " long.	In spring and early summer.	Apple.	Spray with arsenate of lead until fruit forms; after that, hellebore.
Canker worm	A "measuring worm," 1" or more in length.	May and June.	Pear and apple.	Spray with arsenate of lead just before petals fall, before calyx closes; ten days later and again in about four weeks; band trunks during July.
Blister mite	Small mite causing leaf blisters turning from light green to red and brown.	Throughout season.	Injures young fruits by puncturing them to eat and lay eggs; apples, peach, plum.	Arsenate of lead, when worms appear; band trunks in March or early April.
Curculio	Small, grayish beetle, $\frac{1}{8}$ " to about $\frac{1}{4}$ " long. Back mottled black and white; has a conspicuous "snout."	In early summer when fruits are beginning to form; another generation in August.	Apple and grapes.	Strong miscible oil or kerosene emulsion spray; just before leaves come out and again in fall.
Leaf hopper	Small, slim, yellowish hoppers with blunt heads.	Through season, indicated by leaves turning brown and drying up; "hoppers" working on the under side.	Grapes.	Spray with lime sulphur and strong arsenate of lead; for best results jar trees every cool morning, and catch beetles on sheet spread beneath.
Rot, black	Fruits turn purplish brown and become shriveled.	Summer; especially after wet weather and where tall weeds or grass are left near the vines.		Spray under side of leaves with strong kerosene emulsion.
IN THE FLOWER GARDEN				
Aphis (plant louse)	Similar to those attacking vegetables described above.	See aphis above. Where foliage is thick, in axils of leaves or growing tips.	Roses, sweet peas and most soft-wooded plants.	Nicotine spray; kerosene emulsion.
Mealy bug	Small, soft-bodied insect covered with small cotton-like specks.	Congregate in leaf axils throughout season; most likely on neglected plants in frames or on porches.	Soft-wooded plants and new growth on some hard-wooded plants such as fuchsias.	Nicotine spray or paint with strong kerosene emulsion, alcohol.
Rose beetle	Yellowish, active, crawling beetle $\frac{1}{2}$ " or more long with long hooked legs.	Throughout season, especially May to July, when plants are in bloom.	Roses mostly.	Arsenate of lead or Paris green extra strong; new patent spray widely advertised; hand picking into kerosene and water also effective.
Leaf spot; rust	See above.	Throughout season.	Asters, carnations, etc.	Spray with Bordeaux. Keep new growth covered.
Mildew	Powdery, dirty white deposit on leaves.	Throughout season, especially after sudden changes in temperature.	Roses and some others.	Prune infected parts; dust with flowers of sulphur; thin sufficiently for free circulation of air.
Aster beetle	Active, long-legged beetle, $\frac{1}{2}$ " to $\frac{3}{4}$ " in length, eating flowers and foliage.	Appears in numbers, August and September.	Asters preferably, and some other flowers.	Strong arsenate of lead spray; knock bugs in early morning into can of kerosene and water.



Taffeta covers edged with fringe and pillows of taffeta and lace give an air of elegance to this bedroom, designed by Chamberlain Dodds

DRESSING THE BED

The Spirit of Repose in a Chamber Is Created by Harmony Between Spreads and Pillows and the Other Decorative Accessories

HANNA TACHAU

Of all the rooms in the house, the bed-chamber expresses the individuality of its occupant more explicitly than any other. Here a woman feels free to satisfy her tastes and whimsies and to reveal the intimacies that are so real a part of herself. It is her own particular sanc-tum where she may go for rest and quiet; and she has learned that perfect repose can best be achieved among harmonious surroundings.

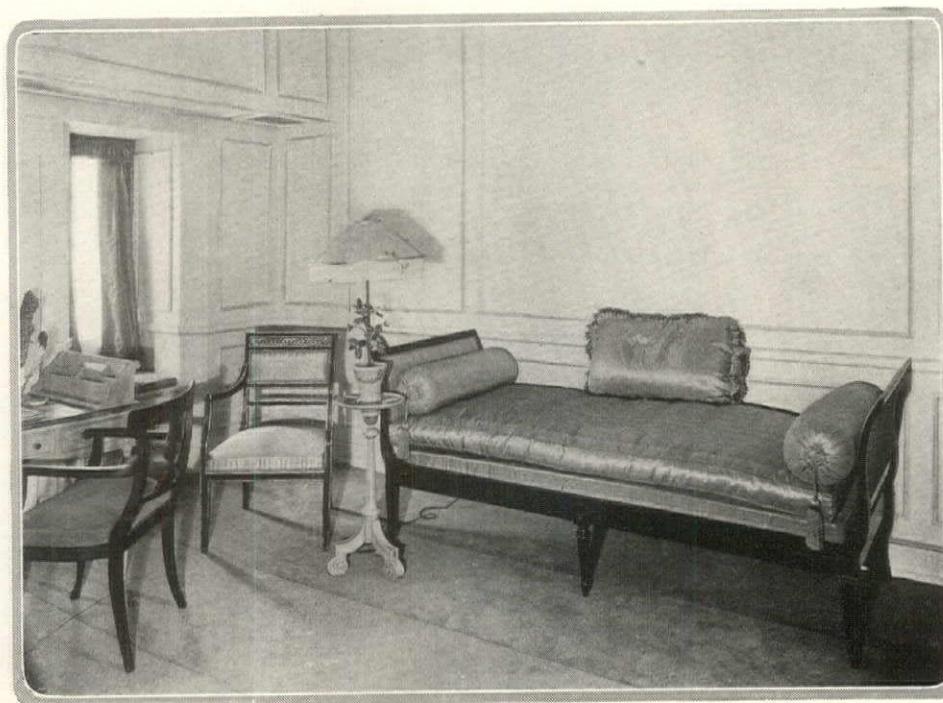
Although man had the vision to create the palace and stately mansion, with great ceremonial rooms, much of their human quality was devised by woman, who even in early days managed to contrive little retreats—*appartements intime*—where she could cast formality aside and fearlessly attain the comforts that lesser splendors bring.

And so today in our more democratic mode of living. Every woman has the desire for happy, beautiful surroundings and, as her

desire grows, it is made even more possible of accomplishment. Though her purse be slim, she has all the wonders of the old and new world to choose from. The exquisite designs of Persia, the fantastic conceits of China and Japan, the primitive

daring of Peruvian textiles, the time-honored patterns of England and France, not to speak of the restless, bizarre effects of many present-day productions—all of these are available. And through her own ingenuity she may choose these silks and cottons and linens, and fashion them into the dainty things that give her room both individuality and charm.

In furnishing the bedroom, after the basic points of decoration—the walls, floors, ceilings, windows—have been dealt with, the next most important factor is the bed, which is the dominating feature of the room. In olden days it was raised upon a dais enveloped in trappings and curtains of the richest tapestry, velvets and silks. We now have different notions of hygiene and a different



For a day-bed, the cover and pillows may be of striped taffeta simply made. Chamberlain Dodds, decorator



The gray cottage beds have covers of rose linen and rose and blue linen pillows. Courtesy of the Erskine - Danforth Co.

way of living. Our problem is to attain beauty through simplicity, through suitability, through practicality. And we have devised ingenious ways of combining all these qualities with our modern love of cleanliness.

The bed at once announces the character of the room—not only through the particular type or period to which it owes its origin but by the way it is dressed. So many women who furnish their bedrooms without the assistance of a decorator lose out in this detail. Time was, when a white piqué or an elaborate lace bed-spread was the last word in a bed covering. Now that we are awakening to keener decorative appreciation, we know that it is essential that every detail be properly handled to accomplish any attempt at harmonious unity.

The great four-post beds of our ancestors, with their delightful hangings of muslin or chintz, immediately conjure up visions of large rooms, rather austere in their stateliness. If we should now attempt to utilize one of these old Colonial beds, however proud we may be of its possession, it would, in all probability, overflow our rooms of lesser dimensions or dwarf all other articles

of furniture. However, our furniture-makers are adapting these beautiful old types to modern needs, making them of lighter build and designing them along slenderer lines, so that they are entirely compatible with old chests of drawers and high-boys that we may be fortunate enough to own.

One of the rooms shown contains a modern Colonial bed with curtains and bed floundings of net edged with a knotted fringe, that can be easily washed. The bed cover is of chintz, delightful in its fanciful design that was so characteristic of these early prints. The same idea is carried out in the window draperies where simple net curtains are used with only

a deep valance of chintz and no over-drapery. This is particularly good for a bedroom where light and sunshine are at a premium. Any woman who is clever with her needle can carry out this scheme at small expense.

The 18th Century proclaimed a new note in house decoration which is still well suited to our ideas of hygiene and modern living. The bedroom is no longer used as a salon, as it was as late as the 17th Century. It has now taken on the true character of a sleeping apartment. We can now see that many of the supposed vagaries of house furnishing—"whims of fashion" as they were termed, were truly founded on practical requirements.

The *petit appartement* naturally required lighter stuffs than did the earlier rooms of parade, and the artists of the day, so alive to the beauties of proportion and to a feeling for color and fitness, brought about a change in decoration.

Gay cotton stuffs, imported from the East, found a vogue. This led finally to the establishment of a manufactory at Jouy where the French *toiles* soon superseded the foreign cottons and linens. Not only do we still use adaptations and reproductions of these and many other of the early hand-blocked prints,

(Continued on page 90)



On a simple painted bed one may use a cover of unbleached muslin worked in tied knots. Erskine-Danforth Co.

METAL LATH FOR PERMANENT CONSTRUCTION

When Properly Used Metal Lath Can Help Insure Against Fire or Dampness and Make the House Impervious to Heat and Cold

HENRY COMPTON

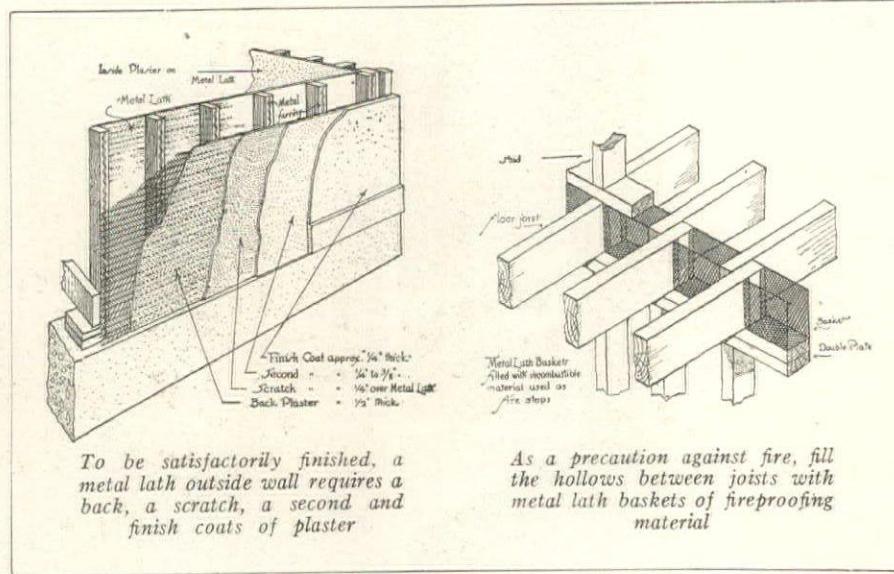
IT is really far more important to create your home than to inherit it or buy it. What can be more fundamentally fascinating (except, perhaps, making a garden) than to plan your house, watch its construction and make sure that it is growing up wisely and beautifully! Not that you intend to dash around, trying to superintend the architect and builder, and irritating both. But you can learn to work with them, understand them, even to appreciate them. And gradually, with a real knowledge of architecture, construction and building materials, houses with cracked plaster, damp rooms, smoking flues will vanish out of architectural history.

There are ways of starting a house on the right road, and one of them is to make it fire-proof from the cellar up. To suit this generation, a house must be a permanent structure, practical in every detail. It must also be attractive in design and luxurious in fitting. There are several methods of solving the problems of fire, smoke and dampness, and one of the most satisfactory is a metal lath construction, not only for the exterior walls, but for floors, ceilings and partitions.

Very fine old houses are still in existence that have been built of wood lath, some that were not even furred; but today we would not think of using a wood lath without furring, and even with metal lath construction, the extra safeguard of furring and sheathing is introduced. We insist upon safeguarding our health these days, we like our builders to hold out a guarantee that in our home we are going to escape most of the constructional ills that, in the past, houses have been heir to.

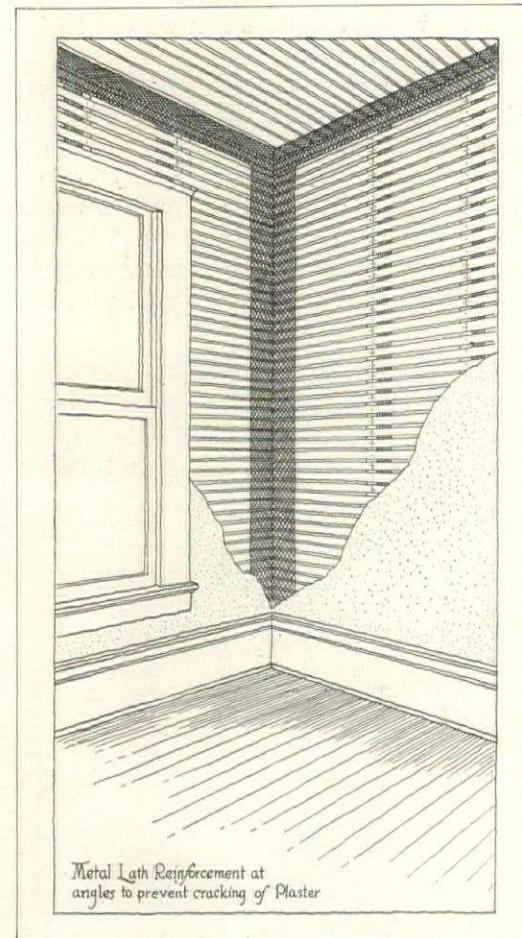
There is very little more expense in wise building than in careless construction. Metal lath in our walls, floors and ceilings gives us almost a complete sense of security, and is in no wise a mysterious and difficult material to handle. There are certain rules in building with metal lath, and if these are obeyed there is no possibility of its not fulfilling its purpose. Properly used in the making of walls, it will not burn, swell, shrink or warp, and thus it protects us against fire and dampness as well as heat and cold.

Metal lath is made from steel sheets which are expanded and punched to form holes. It also comes in the form of a square-mesh wire cloth. The sheets of punched steel or wire mesh are nailed on wooden studs attached to the framework of the house. As these sheets come from 8' to 10' long, they are put on much



more quickly than the old wooden lath. Each sheet is fastened to a stud by nailing or stapping every 6". The sheets are lapped not less than $\frac{1}{2}$ " on the width and 1" on supports.

On this web of steel the plaster is troweled, readily finding its way through the mesh, and clinching itself at the back so that each opening becomes a concrete key as it hardens, locking the plaster to the metal lath. Where



Where wood lath is used, the corners may be supplemented with metal lath to prevent the cracking of the plaster

furring is not an integral part of the metal lath, furring strips should, of course, be placed on the studs as an additional protection from dampness.

The difference in expense between metal and wood lath is mainly due to the fact that metal lath requires three coats of plaster and wooden lath but two. The metal substance, not being as stiff as wood, sags under the pressure of the trowel and must be stiffened by an evening plaster coat. Some varieties of metal lath are strengthened by ribs, which obviates the necessity of the evening coat.

Metal lath must, of course, be built into the actual construction. It cannot be added afterward unless the entire wall and ceilings are removed. Tests by the U. S. Building of Standards prove convincingly that new stucco buildings should also be back plastered.

Fire-stopping is most imperative in the first stages of planning house construction, yet it is often neglected. It is advisable to include a clause in the lather's contract specifying the installation of metal lath at the juncture of floor joist and walls, so bent that it forms baskets, which are filled with incombustible material, preventing hollow walls and floors from becoming flues to carry fire.

With all its virtues, metal lath cannot rise superior to faulty construction in foundations and walls.

In studying the drawing accompanying this article, you will notice that sheathing boards have been entirely omitted, as they are not always considered necessary when metal lath is back plastered. However, sheathing boards under metal lath are still considered a wise precaution by many expert builders. Or building paper may be attached directly to the studding.

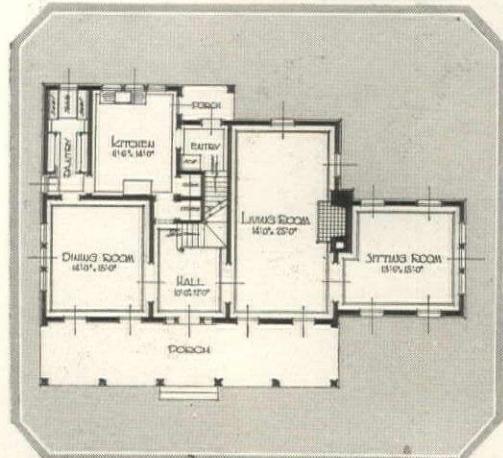
Many architects who are authority on building feel that stucco should not be run to grade. Not only is there danger from frost, but the bottom of the walls will tend to become stained from dirt and moisture. Attention to the flashing and drips will also eliminate discoloration or even more serious defects. Where downspouts are installed, they should be at least 2" from the surface of the finish. Window sills should project well over the stucco to allow water to drip without running down the face, and the ends of the sills should be stopped by pieces of metal so as to prevent concentration of dripping over the ends.

To prevent unequal settlement of the building, it is essential that the footings for the foundation be made wide enough and be care-

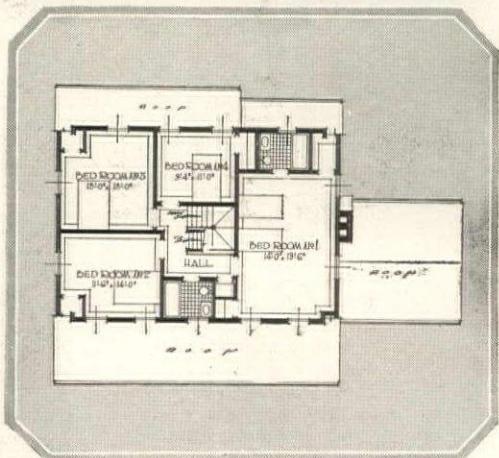
(Continued on page 82)

A GROUP OF FOUR SMALL HOUSES

The gambrel roof, or Dutch Colonial type of house, permits a number of variations. In the home of Frederick Cooke, Tenafly, N. J., the extension of the roof to cover an arcaded porch and the range of windows above are unusual

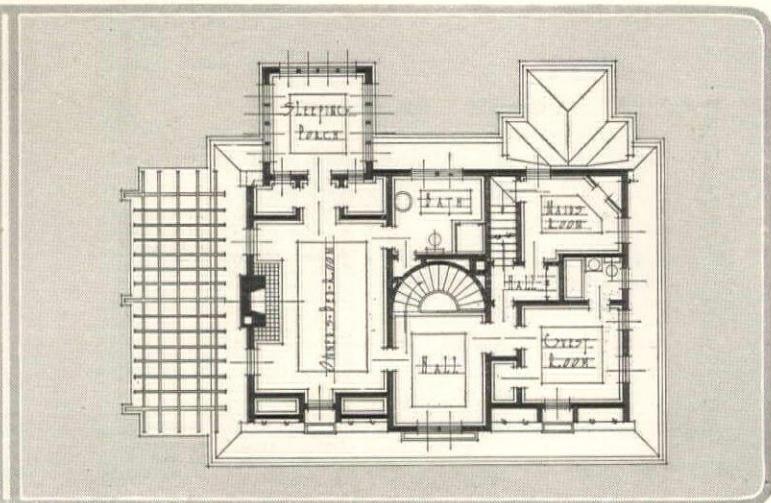
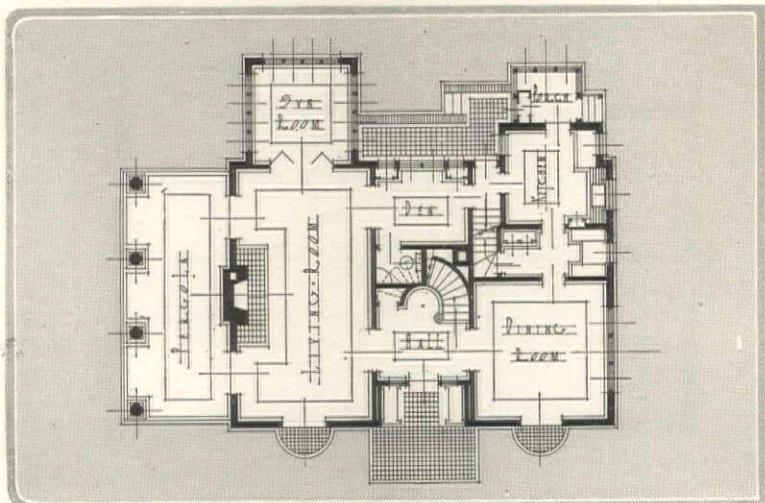


Though economically arranged, the rooms are very livable. A sitting room in an extension adds to the living area. Center stairs of the reverse type save hall space.
R. C. Hunter & Bro., architects



Another variation of the Dutch Colonial is found in the home of Fred D. Oakley, Terre Haute, Ind. Here the middle upper window is advanced and the other two recessed. A wide roof overhang covers the terrace

Into a balanced disposition of rooms has been introduced such features as a semi-circular stairs, a den in the rear and a compact and convenient arrangement of the service. Johnson, Miller & Miller, architects





Gillies

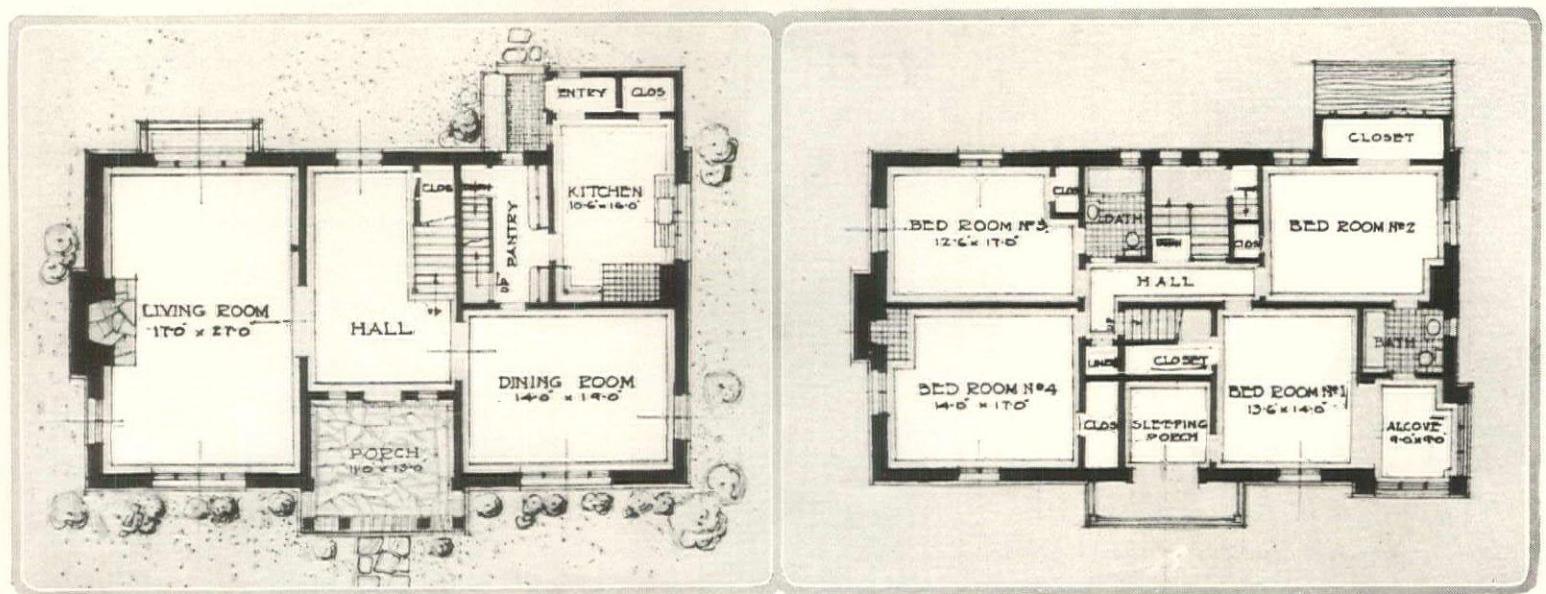
In building the home of Miss Mary McKelvie, at Spuyten Duyvil, N. Y., the architect used available materials in a natural way. There is no coloring added to the stucco, no stain on the shingles and very little stain on the woodwork

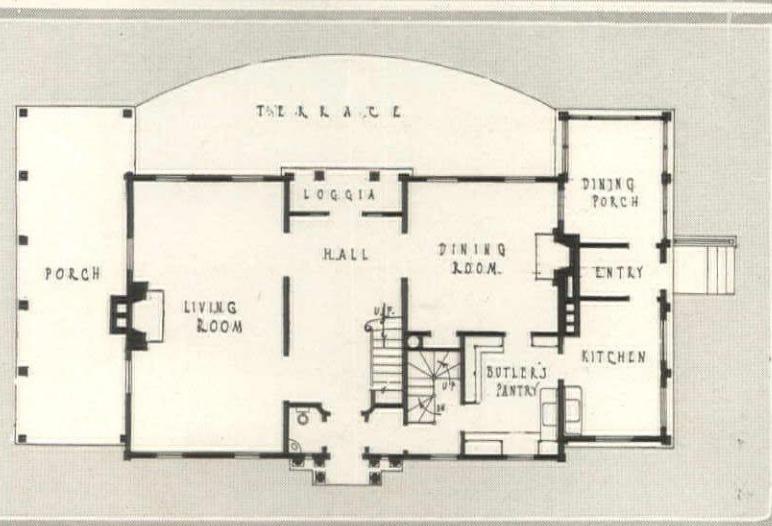
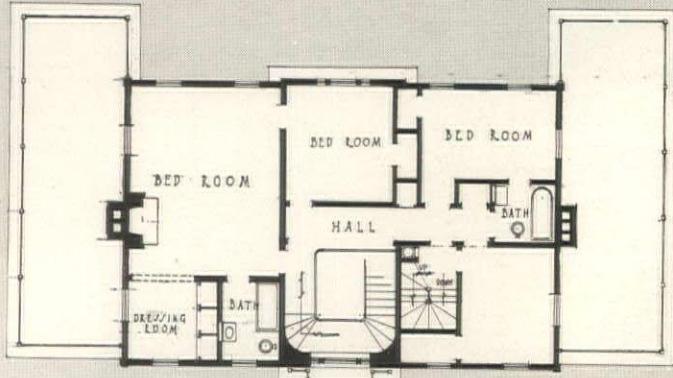


The first floor plan is the acceptable style for a small house, a middle hallway with living room on one side and the dining room and service on the other. Large windows with steel casements and leaded panes afford an abundance of light

The east elevation shows an overhanging bay at the corner. Definite color notes are found in the brick window sills and terra cotta chimney pots. The shingles of the roof are laid irregularly and without the usual sharp metal valleys

The problem in designing the house was to give a rectangular building an interesting form without wasting any floor space. A compact but livable disposition of the rooms on the second floor shows this to be successfully accomplished

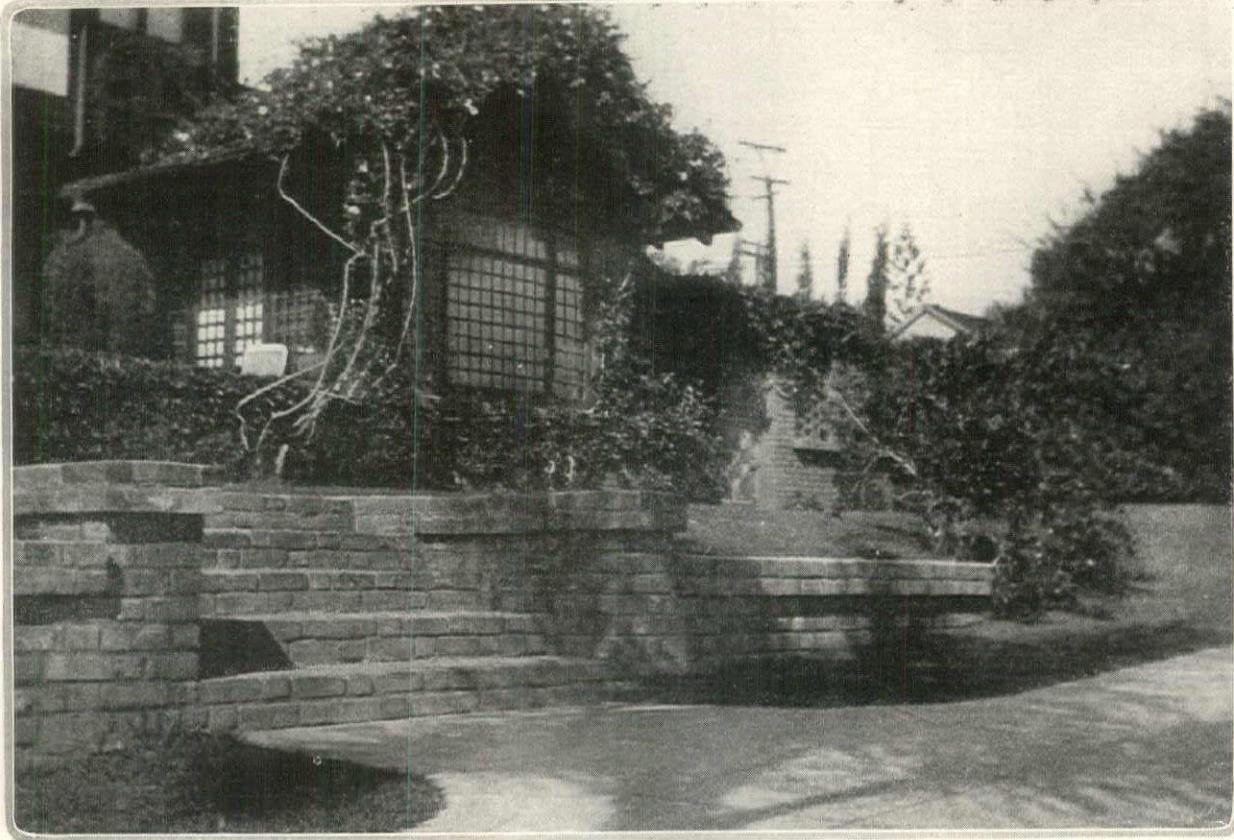




The plan is given balance on the first floor by a long porch and a service addition which extend far enough to enclose the terrace on each end. Upstairs there are two suites and a single chamber. Servants' rooms are found on the third floor

French doors open from the living and dining rooms on to the rear terrace. They are repeated in the glass doors of the loggia and the porch. The roof lines on this rear elevation and the simple Palladian window have pleasing merit

those in old India that antedate the Syrian walls many hundreds of years. Then there are those of old China and Japan. Many instances of such walls can be seen and enjoyed and marvelled at even to this day in Syria, India, Japan



The problem of incorporating steps in a retaining wall is well solved here, where the whole arrangement is simple and unadorned and blends easily into the grassy slope at one side

and yet have cultivable lands about them, for use and beauty, too.

Traveling about through Italy, one is astounded at the prevalence of such walls

(Continued on page 92)

TINWARE, RUBBER and PAPER for the KITCHEN

Incidental Articles that Help to Complete the Equipment and Lessen the Little Inconveniences and Annoyances

ETHEL R. PEYSER

TIN is one of the oldest metals in the world. The ancient Greeks and the ancient Hebrews made mention of it frequently.

Before the advent of the aluminum and enamels, agates, granites, glass, etc., tin was used extensively in the kitchen, but now the cooking utensils is very rarely tin—and rightly so.

However, tin still remains a good thing for certain utensils in the home and is well worth employing in many ways.

Everything made of tin today is but steel or iron dipped and coated with tin. Tin melts at a comparatively low temperature and is, besides, affected by acids. This is why baking, stewing, etc., are not to be done with tin utensils—plus acid food. The dark rings on baked apples cooked in a tin dish show very plainly what acid and tin do in combination. Yet we have had delicious chicken pie baked in individual tin dishes.

In buying tin the criterion is its weight. It is wise to buy tinware only in the best shops, because small and out-of-the-way hardware shops can rarely afford to keep on hand the best grades.

Tinware should, of course, adhere closely to the lines of all other utensils in that it must be smooth with no rough globules or edges, and without seams (which might catch food or dust particles to create an aftermath difficult to rectify).

When cleaning tinware, place the utensil to be cleaned in hot water and soda. Never keep the utensil more than five minutes in the water because the tin will dissolve a little as the heat and soda meet, and though this will disintegrate the grease it will make the iron or steel base show through. Rub the utensil with a fine powder like whiting, rinse hot, and dry while hot. Tin will rust, so it is best to dry while the tin is hot.

Among the most useful and jaunty things in tin is the so-called japanned ware, which is but painted tin.

Bread and cake boxes come in different colors, with and without shelves, sliding doors and in varying fastenings to suit your fancy. These are light and easier to manage than the shiny metallic ones and easier to clean out than wooden ones. Some have removable shelves, which adds to the joy of rations.

The less expensive tin cake cutters in their multitudinous designs are very inexpensive and good tools. They are keen cutting and light and durable.

GALVANIZED ware is usually steel or iron treated to a special finish of tin.

Some of the things in this material are most useful and necessary—for example the refrigerator drain pan, garbage pail and ash can. These are extra heavy and withstand wear and jouncing.

For the less elaborate kitchen the tin muffin pans, funnels and pie plates are useful, yet not as good as other kitchen ware materials such as aluminum, enamels and glass.

The ideal Christmas tree holder which keeps the tree fresh for months on account of its simple reservoir for water is something well worth knowing about. It holds the tree very steady and is japanned in a dull green.

For country or suburban homes the outdoor incinerator (a perforated tinned container) permits the burning of rubbish without danger from blowing cinders. Of course, this is not meant to burn fats and animal refuse. Incinerators of another order are necessary for this.

The copper bottom wash boilers whose numbers and designs are legion are extremely good and much in use, as they are light in weight and durable. Remember the finest boilers and washers, copper lined, are of planished tin.

The galvanized coal scuttle, flour bin—japanned or plain heavy tin—is not a pariah even yet.

There are some householders who have tinware left over from the past. To these, we can say: as they die out, replace them with better, if you care to, but be loyal to what you have used if they have served.

NO one recommends tin today for cookery when there are on the market more ideal cooking utensils, but what we do wish to convey to you in this article is that tin has legitimate uses.

For example, there are spice, sugar, coffee, etc. canisters in white enamel tin, brown, black, etc. with gold lines. These are not as autocratic as the blue and white china, but they will outlast any such delightful and much to be desired shelf trousseau. A kitchen in white with white enameled tin containers is a very pretty thing to contemplate.

Some of the heavier tinware, as we said above, is but iron or steel dipped in tin and, of course, is very resistant and enduring and not particularly cheap.

Agates, enamels, etc. are merely steel and iron covered with layers of composition that when dry are made up to resist cookery onslaught. So you can see how closely allied the humble tin is to the efficacious first cousin agate, etc.

There are two or three very interesting and effective ice cream freezers made of tin. There is one, in fact, so built as to need no turning.

Tin trays are invaluable as they come in all sizes and are exceedingly light. They come plain, japanned and decorated, but anyone with a sense of paint and form can make an ordinary tin tray a thing of joy; while for the most part the tinware houses execrably decorate these trays. There are too, very interesting drainers for sinks, of iron with tinned grates well worth having in any kitchen.

THE rubber ware that is used in kitchens is not extensive, but what is used is indispensable.

For preserving, of course, the rubber ring to seal and close jars tightly is a necessity, and the best is none too good to buy. Unless you have the best you will be cheated by breakage and consequently leakage.

Never use kerosene to clean rubber, as it dissolves it. Store all rubber things in as cool and dark a place as possible. Talcum powder brushed over a dried rubber surface will keep rubber things from sticking together.

Rubber mats for the sink take care of your utensils and prevent breakage. They also prevent the sink from becoming pitted with holes.

Some people like perforated rubber mats on linoleum or tiled floors and for kitchen hallways and stairs. These wear for a long time.

A few rubber corks in the home often help you out of a dilemma for temporary corkage.

Rubber brushes for sink use in combination with tin are useful and can be well scoured and kept in condition.

Rubber gloves for kitchenette and kitchen use save the hands and are worth their weight in radium. If more women used them the housework problem would be less like martyrdom. They preserve the hands' health and beauty.

Rubber is used for door stops to preserve the door surface and prevent noise. It is also used on the tip end of table and chair legs to preserve floors and rugs and to diminish noise.

This is about the full list of rubber things for the house except, perhaps, the rubber heel for maids' and butlers' shoes and rubber stoppers for sinks.

THE uses of paper in the home are not so many.

Shelving in the pantry or kitchen can be kept in renewed health with paper laces.

The bungalow, motor trip or picnic can well be supplied with paper or fibre plates.

Rather would we warn you against paper uses: such as wrapping up your ice to preserve it, for it doesn't; wrapping up your food stuff in paper in refrigerator; greasing muffin pan with paper, for which you should use a brush.

Sometimes, however, a piece of paper will clean off the top of the stove very efficiently, yet even here a brush would be far better.

Clean brown paper to absorb French fried potatoes is quite indispensable.

The paper napkin has made its place even in the homes of wealth.

Wax paper is a delight to wrap up sandwiches and keep breadstuffs and cakes fresh for touring or picnics.

Paper lining for drawers is necessary.

The pretty paper lace doily for under finger bowls, cake and bread is delightfully pretty and saves the linen, the laundress and the laundry list.

IF YOU ARE GOING TO BUILD

*Take the Trouble to Inform Yourself of Your New Home's Requirements
As to Plumbing, Heating and Lighting*

MARY FANTON ROBERTS

WHILE you are still in the midst of planning your home, before the final architectural drawings are made or the specifications written, three vital problems have to be faced, the constructional side of plumbing, heating and lighting. Anything that involves pipes or wires in the wall must be decided upon when you are still in the fundamental part of your house planning.

The utmost perfection in building equipment is nowadays regarded as absolutely essential even in the smaller and less expensive houses. You must decide upon the kind of heating you are going to employ and have it best suited to your type of house; whether you will light your house with gas or electricity, just how much money you will spend on plumbing and how much you will have. Then you can have this information incorporated in your specifications, and your builder will have a fine start on the plans. Safe plumbing must mean excellent materials, the most practical system and the finest workmanship. It is impossible to install cheap plumbing and safeguard the health of your family. What you eventually pay in repairs will in time bring up the cost of your plumbing to what would have originally given you the best. And if you ever have to sell your house, one of the first things the agent investigates is the plumbing; next, the condition of the cellar, and then the heating apparatus.

Most plumbing is standardized and your installation will, of course, depend upon the type you select to put through your house. Just because your plumbing is going to be hidden behind walls is no reason why you should not have the best you can possibly afford. In planning your plumbing, you must consider not only your bathtub and lavatory, but a separate toilet, the sinks in the kitchen and the laundry tubs in the basement. Study your catalogs before you select your plumbing, and if possible go over them with a plumbing expert, even if you



From the English we might well learn the trick of using the steam pipes for a towel drying rack. Here the radiator is concealed in the paneling beside the steps and pipes extend above it. The top of this paneling can have an open grill



Where space and the purse permit, consider the installation of a shower bath as an adjunct to comfort. The complete tiling of this bathroom, the low built-in tub and the excellent window lighting are features worthy of reproduction in other situations

have to pay for his advice, unless your builder is willing to take this responsibility.

An expert on the question of plumbing for the modern home takes up the matter in the following wise way: "Your plumbing system will be no stronger than its weakest joint. It is essential that your stack be absolutely tight from top to bottom. Joints that leak are apt to allow gas and foul odors to enter the living rooms of your home. Joints where the plumbing fixtures are connected with the stack must be tight in every respect. After all joints have been made tight, the piping is tested for water leaks by plugging both ends of the system and filling it with water or air and watching for leaks or seeping through defective joints or flaws in the pipes. To prevent sewer gas and other odors from backing up into the rooms, traps are placed at the bottom of the fixtures. These hold a certain amount of water. The water is a part of the drainage from the fixtures. It is held to a certain level in the trap by a bend or 'S' shaped curve. It thus provides a seal between the stack and the house and is a gas preventive. Kitchen sinks can be provided with grease traps to catch the grease and take it from the water before it reaches the cool pipe, to grow hard and obstruct the easy emptying of the plumbing system."

If there is any danger whatever of freezing, be sure that your pipes are insulated wherever they are exposed to cold. It is possible to purchase what is known as frostproof toilets. These are very important in some countries.

The built-in bathtub represents the highest sanitary efficiency. A few years ago, when the enamel tub first came into use, it was considered a great luxury, but now we not only demand enamel, but the bath is recessed so that it is impossible for even dust to collect under and about it. The bathroom equipment becomes a part of the very construction of the house.

(Continued on page 82)

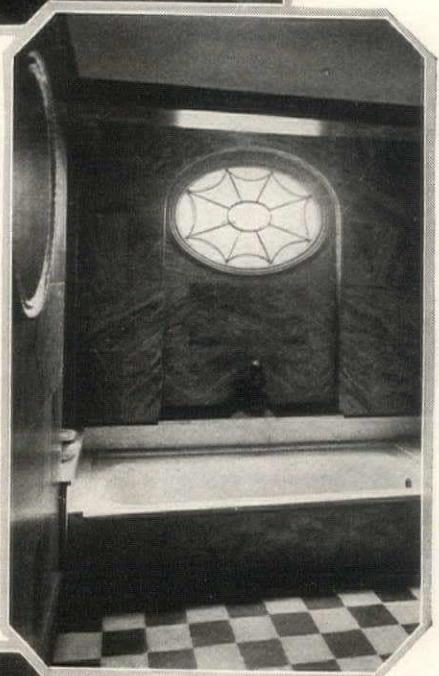


The ultimate luxury, of course, is the Roman bath, sunk below the level of the floor. It requires a large room and deserves to be finished in a fitting style. In this example the floors and walls are green marble edged with black

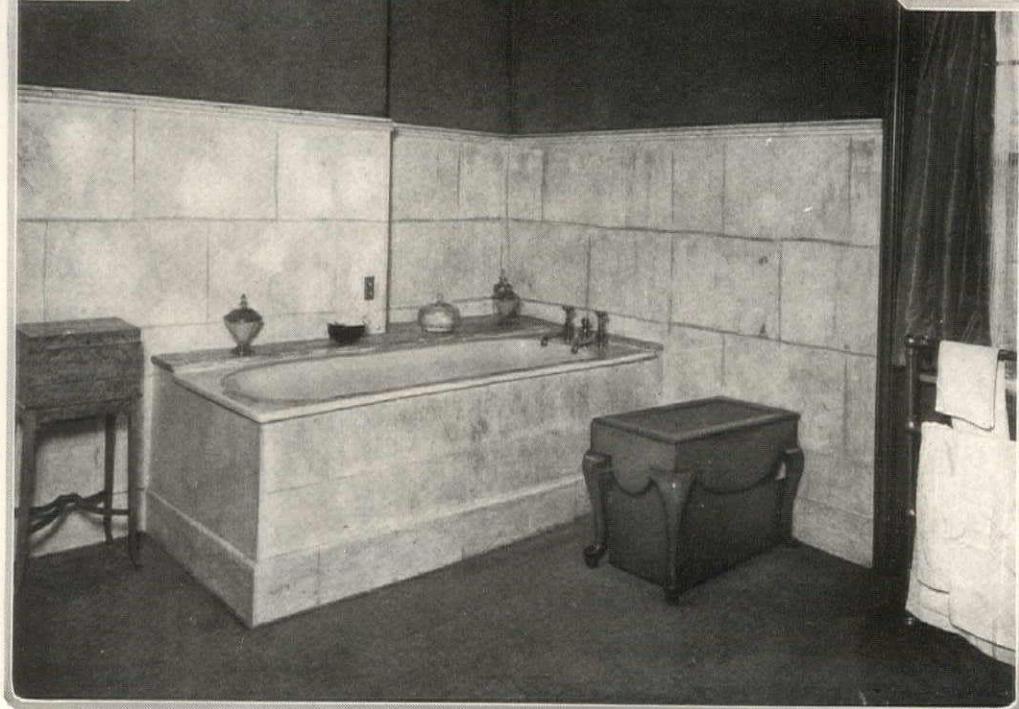
In planning for the bathroom see that it has plenty of morning light and provide, as in this tiled example, adequate lighting fixtures

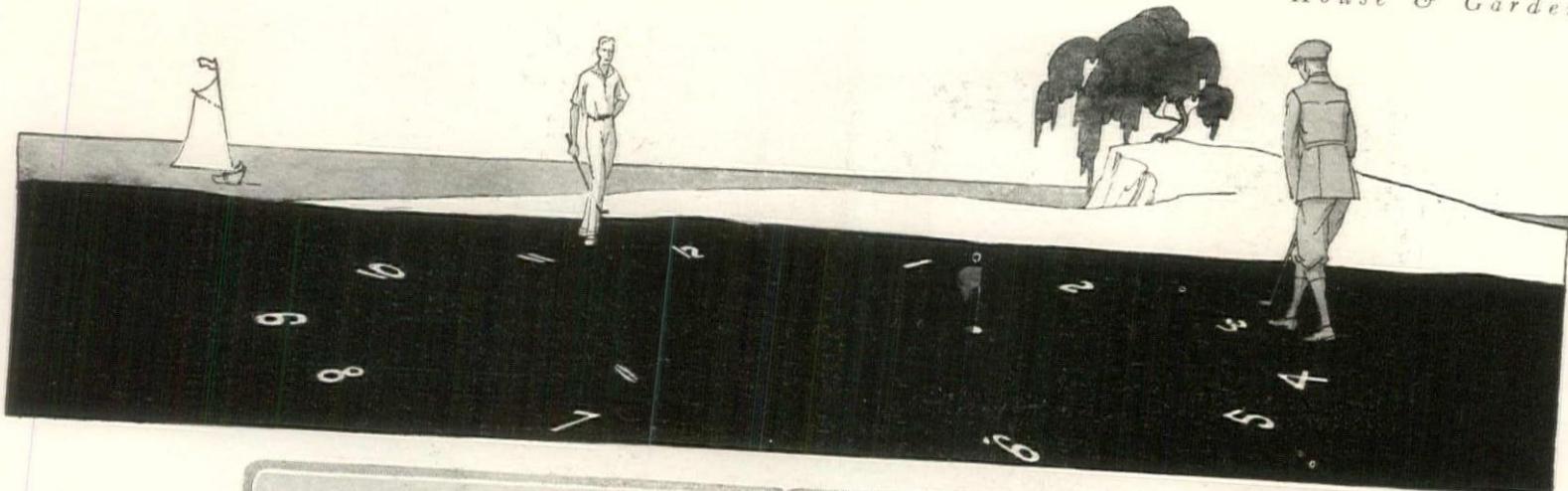
The tub can be partially sunk, as in the room to the right. The floor is covered with composition tiles and the walls with composition stone

From an English house comes another example—the tub is enclosed in pink marble and a dado of the same material is used on the walls. This gives a wide shelf at the rear for bath salts and dusting powder jars



Hewitt

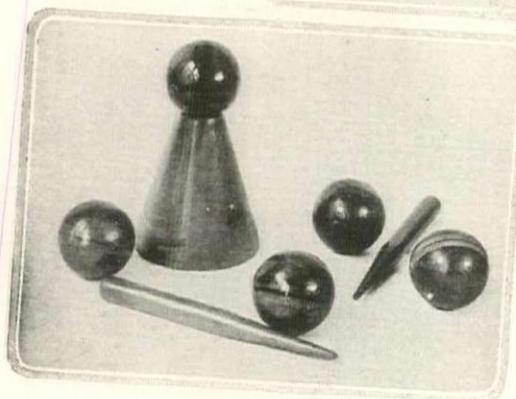




One of the oldest garden games is quoits. Four heavy rubber quoits with an iron pin come for \$4.69

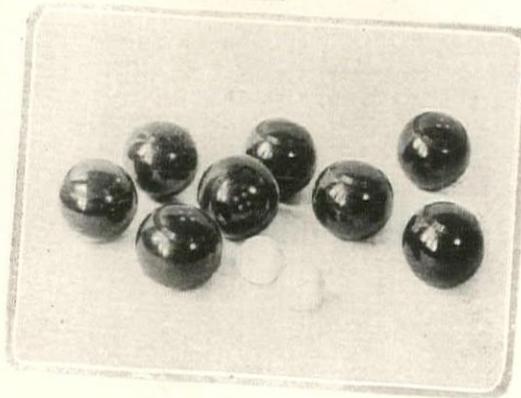


To develop one's putting strokes nothing is better than clock golf. Complete with cup, figures and directions for layout \$5.24. Putter \$2.24

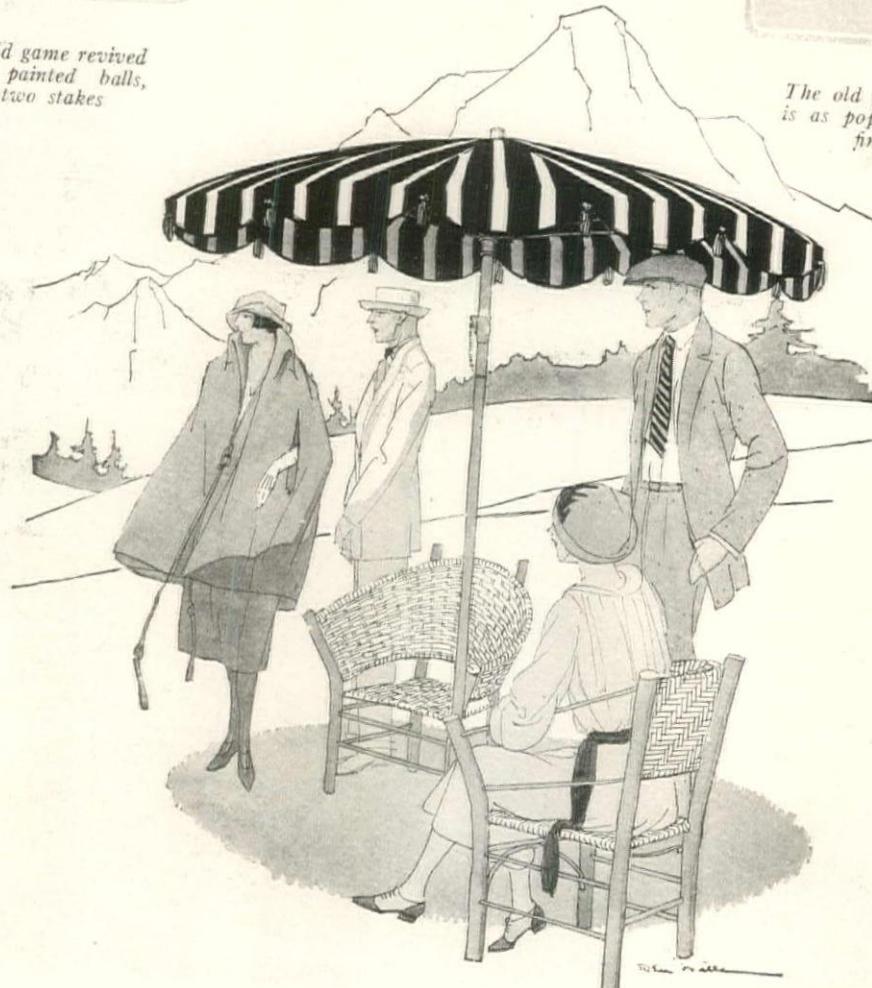


Duck on a Rock is an old game revived and improved. Five painted balls, wooden "rock" and two stakes

Featherweight dice $3\frac{3}{4}$ " square may be rolled in a garden, on a beach or in the water. \$2.50 a pair



The old game of bowling on the green is as popular now as ever. A set of fine English bowls is \$20

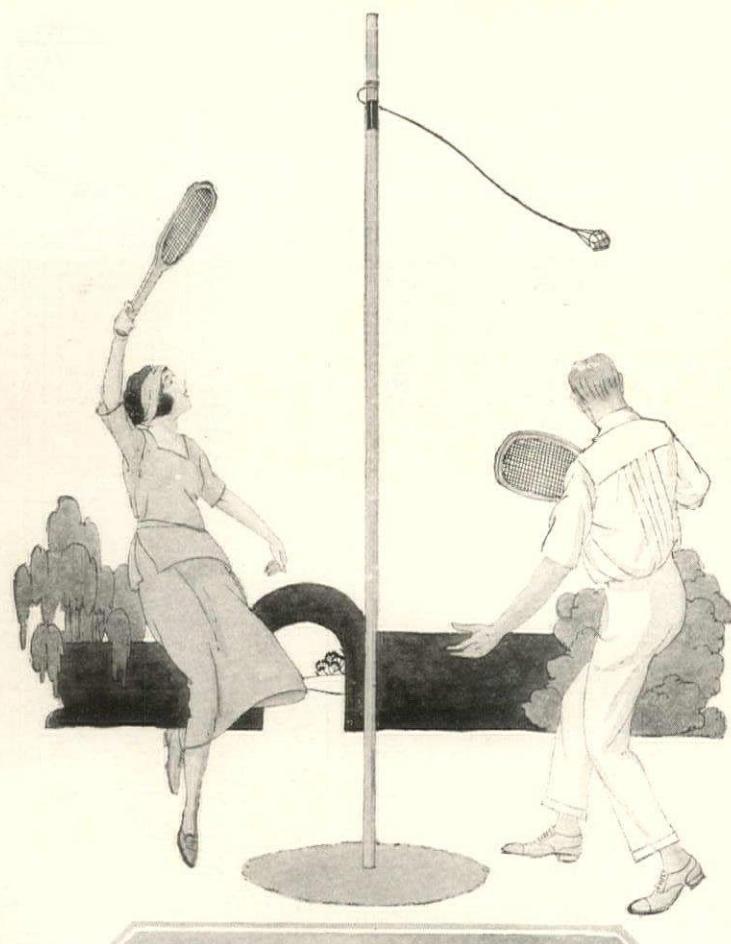


Garden furniture should be informal in type, comfortable and decorative. A relief from the ever-present wicker are the unstained hickory chairs on the right that meet all the requirements of garden furniture. The chair with the fan-shaped back is \$14.24. The other is \$6.94

The very attractive group at the left that seems so interested in the outcome of some game are shaded from the sun by an unusually picturesque garden umbrella. It is 8' across, has an interesting scalloped edge finished with tassels and may be had in plain green or green and white striped duck for \$28.25

GAMES TO PLAY IN A GARDEN

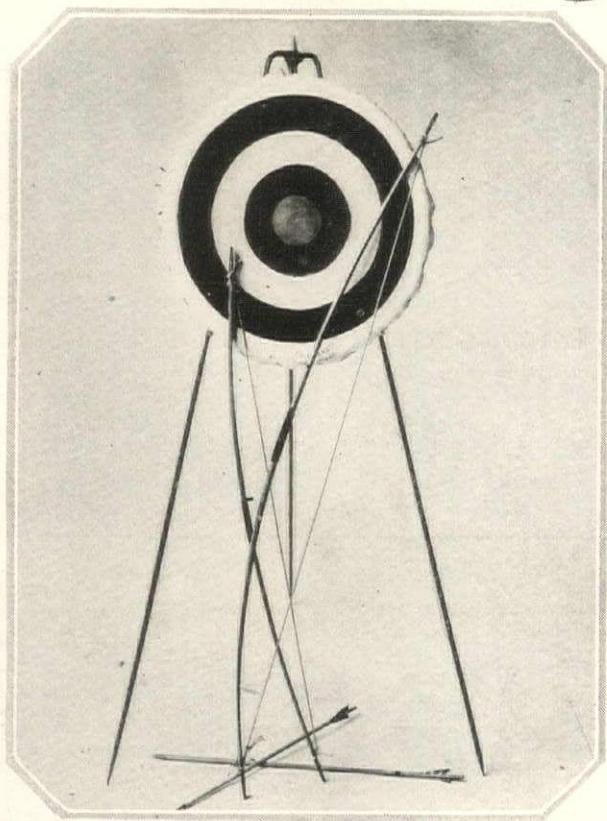
They may be purchased through the House & Garden Shopping Service, 19 W. 44th St., New York City.



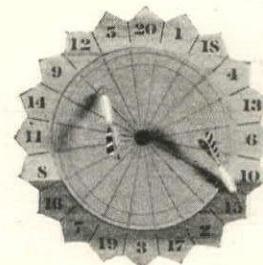
This air ball when blown up is 12" high. It is very light and painted bright silver. It may be purchased for \$5

Archery is so attractive to watch as well as play, it should be in every garden. The painted canvas target 19" in diameter is \$4.96. Green iron stand \$5.44. Wooden bow 51" long \$8.94, 39" long \$3.9. Feathered arrows \$1.10 each

A splendid set of croquet consisting of four balls and metal bound mallets with handles 21" long, white enamel wickets and wooden sockets is \$10.48

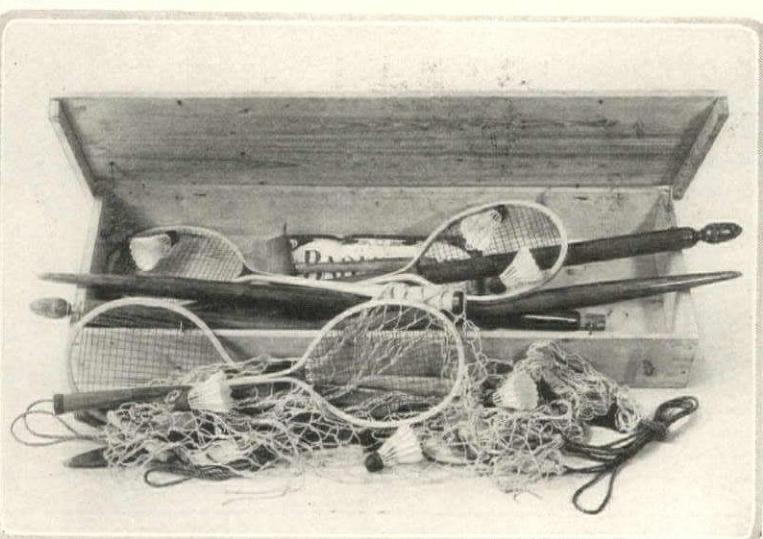


Tether ball makes a charming garden game, immensely amusing to play and one that develops muscle, accuracy and speed. An 8' tether pole (children's size) complete with ball and cord is \$4.50. A pole 14' high is \$6.50. Racquets \$2.50 each



An excellent training for the eye is the Throw Dart. Cork target 17" x 17" with feathered darts \$4. Extra darts \$1.15

Badminton is played with racquets and a net very much the same as tennis, only shuttlecocks are used in place of balls. \$22



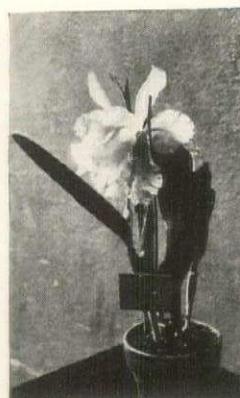
June

THE GARDENER'S CALENDAR

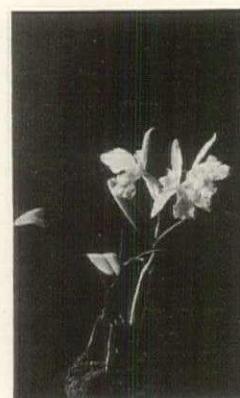
Sixth Month



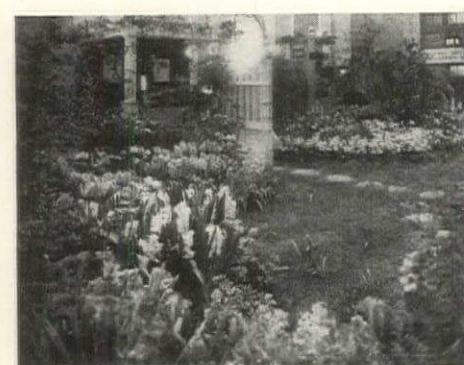
Lake Ontario is a
salmon and gold
decorative dahlia of
real merit. Geo. L.
Stillman



*A splendid orchid at
the International
Flower Show was
Mrs. Harding, from
Duke's Park*



Princess Mary, a
pure white orchid
from Julius Roehrs
Co., attracted much
attention.



Mrs. Payne Whitney's garden at the International Show was full of the spring-time charm of bulbs, lilacs, etc.



Cinerarias, narcissi and hyacinths were features in the foreground planting of Col. W. B. Thompson's exhibit, a prize-winner at the New York Show



Another view of the Whitney exhibit shows a sundial surrounded by primroses, set off by acacia and forsythia

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
This calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its suggestions should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates given, are, of course, for an average season.						
4. A top dressing applied to the lawn now will encourage root action that will help the grass to resist the dry weather sure to come later in the season. Sheep manure, bone meal or wood ashes are excellent materials to use.	5. Do not omit spraying the potatoes with arsenate of lead at the first appearance of the potato beetle. Hilling the potatoes when they are in flower is advisable. At this stage the young tubers are forming.	6. Look out for rose bugs. Go over the plants each day with a small can of kerosene, shaking the flowers over the can and causing the insects to fall into the kerosene. This will destroy them quickly and effectively.	7. The climbing roses should be looked over carefully and any heavy, robust new growth should be tied into proper position. Pruning should be deferred until they have finished flowering, when the old wood is cut.	8. If they have finished flowering, the early spring shrubs such as forsythia, deutzia, etc., should be pruned. The best method is to cut out entirely several of the very old branches. By pruning now no flowers will be sacrificed.	9. Don't neglect to keep up the sowings in the vegetable garden. Corn, beans and cucumbers should be sown twice this month. Inter-cropping may be resorted to in many cases with the purpose of increasing the yield.	10. Tomatoes, cucumbers and melons, as well as other garden products that are subject to blight, should be sprayed at bi-weekly periods with Bordeaux mixture. Leaves that are affected should be removed at once.
11. Care should be taken with all newly planted hardy stock that it be not allowed to suffer for lack of water. Thorough soaking of the ground—not a mere sprinkling—followed by a heavy mulch is needed.	12. Fruit trees that have reached the producing stage should be sprayed regularly with Bordeaux mixture. This protects the fruit from the parasites and fungi. Successive generations must be destroyed as they hatch.	13. It is a good plan to go over the tomato plants, reducing the quantity of unproductive vines and supporting those left to carry the crop. It matters little what system is employed to keep the fruit supported.	14. All the hedge cutting should be done now. Frequent trimming is required in order to avoid making a number of unsightly voids. Hedges that have been neglected for some time may be improved by reaching in shape before cutting.	15. Onion maggots are very destructive at this season of the year. It is good practice to top dress the soil thoroughly with sotot to keep them in check. Thorough attention in this matter will be well repaid by a better crop.	16. One of the essentials in producing good fruit is the proper thinning of the crop. The trees should be gone over carefully now, reducing the quantity of the fruit by about one-half. Larger and better fruit will be the result.	17. Do not neglect to work the garden soil deeply and often. This not only keeps the weeds in check, but preserves the soil moisture for the use of the plants. If this is not done the moisture from the soil will quickly evaporate.
18. Now is the time to stop using the asparagus, as there are other vegetables available now to take its place. Keep the asparagus dusted during the summer with a poison to destroy the asparagus beetle.	19. The flower garden should be looked over and any dry stalks should be removed. Plants that bloom throughout the entire season should be top-dressed occasionally with some good fertilizer to maintain vigor.	20. Tall flowers such as hollyhocks, delphiniums, helianthus, etc., should be supported before any damage is done by storms and heavy winds. Proper stakes should be put in and the plants can be tied in to them.	21. Be sure you keep the lima beans and peas properly supported; the peas by staking and the limas by tying in to their poles. Bush limas should be supported by small pea brush placed in the row. Such attention repays.	22. It is good practice to go over the bedding plants, pinching the tips of their growth frequently. This will cause them to become more sturdy and to develop more quickly and in better form. Only the tips need removal.	23. Don't neglect to soak the soil thoroughly when it is necessary to resort to artificial watering. Evenings or early mornings are the best time for this work. Cultivation should follow so as to re-establish the dust mulch.	24. Thinning out all the crops in the garden is advisable. This should be done when the plants are small and before the roots are interlocked, or numerous undesirable plants will be removed. Water well before lifting.
25. Carnations in the field which are intended for planting out in greenhouses for bloom next winter should be sprayed occasionally with Bordeaux mixture if there is any indication of rust. This will make much difference later.	26. Azaleas, genistas, acacias, etc., should be plunged in beds out of doors, where they can be well provided with water and sprayed. These plants will be making growth at this time and forming next year's buds.	27. It is advisable at this time to take large quantities of chrysanthemum cuttings. These if rooted now will make fine plants for 6" or 7" pots, or when bedded out will make stems about 3' long with good sized flowers.	28. Keep a sharp lookout for aphids of all kinds. If the weather is at all dry, if the plants are infested spray them for three successive evenings with a reliable tobacco solution. Be sure the spray reaches the under sides.	29. Lettuce will frequently run to seed at this season of the year. Boards or other covering material placed over the plants will tend to reduce the loss from this source. Remove all such covering during wet spells.	30. Crops such as potatoes, celery, tomatoes, etc., will be improved by mild applications of fertilizer. Scatter the fertilizer on the ground around the stems of the plants working it well into the soil with a hoe.	3. Do not neglect to spray the fruit trees when they are in flower, using a combination of Bordeaux mixture and arsenate of lead. Spray thoroughly from different angles. This will destroy the many harmful insects.

JIM ELLSWORTH (he's my son-in-law, ye know) he thinks I'm queer-like in the way I feel 'bout ottermobiles; but he don't understand. I ain't got nothin' much ag'in the plaguey things 'emselves. What sticks in my craw is the way they've mighty near druv some good things out. Like the old village hoss-shoavin' shobs, fer instance.

hoss-shoein' shops, fer instance. Gosh, but them was great places in the old days! How busy they was of a Sat'day mornin', with the farmers settin' 'round an' whittlin' an' chawin' terbacker an' arguin' politics while their hosses was inside gittin' shed. Member how the bellows used to creak an' the hosses, stomp? Member the sorter stinjin' smell when the blacksmith set a hot shoe ag'in a hoof, an' the old sign that hung from the willer tree out front, with the hoss-shoe painted onto it, heel up to ketch good luck? Member how, comin' down the road, ya heard the ring o' the hammer. Binder like music away off?

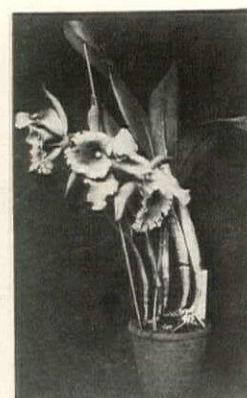
the road, ye heard the ring o' the hammer, kinder like music away off:
Wal' them things is gone an' done for, now. 'Stead o' the bellows, they's a hose o' compressed air for blowin' up tires. Stinkin' gasoline an' oil smell in place o' the smoke from burned hoofs, an' poppin' back-fires 'stead o' the hammer clinks. Even the old sign has give way to a glarin' red gas jiggerbox. Aw! I don't like the changes at all, 'spile o' what Jim says.

—Old Doc Lemmon.

*There's a day in
June before us,
Lustrous green
and blue,
Winds like
heartbeats
pulsing o'er
us
Quick with rap-
ture new.*



*Mrs. Warren G.
Harding is bright
pink varying to
cerise, tinged scarlet,
A. N. Pierson*

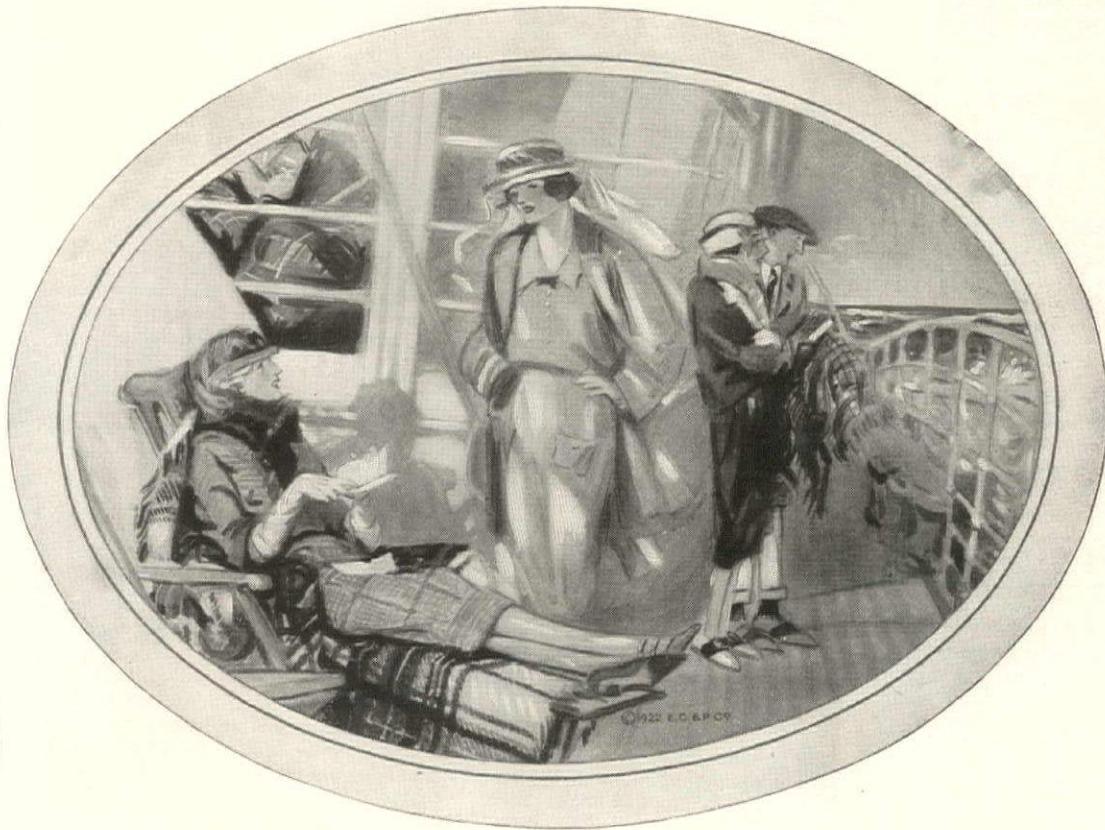


Cissie, a yellow exhibited by A. N. Cooley, won a special gold medal at the N. Y. Show



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America, a new
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BOTH QUALITY AND STYLE



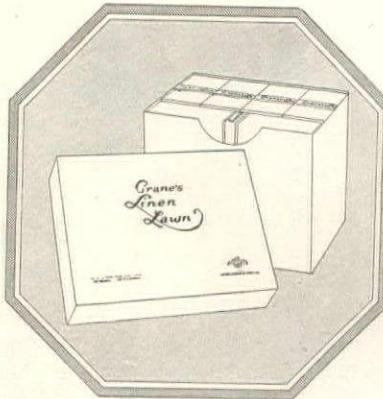
STYLE in stationery is a matter of designing, but distinction goes back of the designing to the paper itself.

Back of the unquestioned style of Crane's Writing Papers is the quality of the paper, a quality assured by the Crane Mills where paper making has been a fine art for one hundred and twenty years.

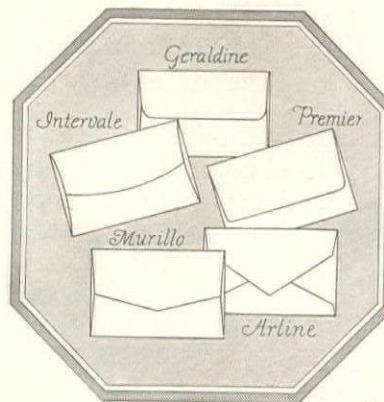
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NEW YORK - PITTSFIELD, MASS.

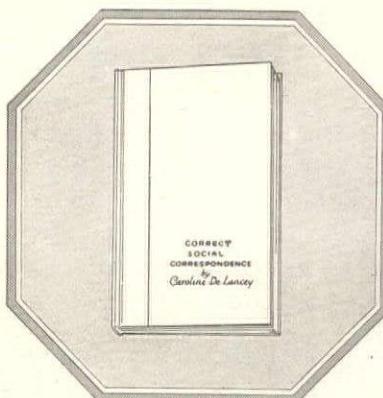
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Caroline DeLancey's Desk Book, will set you right on any little points you may have forgotten regarding invitation forms, visiting cards, etc. A copy, with usable samples of Crane's Linen Lawn, will be mailed to you for 60 cents.



Only Frigidaire can give you Frigidaire Service

FRIGIDAIRE, the electric refrigerator, embodies all the advantages of a modern cold storage plant, simplified and built to operate in the modern home without attention and at a very small cost.

It maintains a constant temperature in the food compartment where fruit, vegetables and meat can be kept for a surprisingly long time in delightful condition.

Its freezing compartment affords a means of supplying ice for table use and of freezing dainty ices, mousses, sherbets and desserts.

With all its advantages, FRIGIDAIRE actually costs less to operate than the average cost of ice.

Such economy is the result of expert engineering. It would not be possible unless FRIGIDAIRE were built as a complete unit with the cabinet designed, insulated and ventilated to exactly fit the capacity of the refrigerating mechanism.

It has given to thousands of home owners complete freedom from the annoyances that have always been associated with the use of ice and can be installed with the absolute assurance that it will prove itself an economy and a source of constant satisfaction.

FRIGIDAIRE is now on display in the show rooms of all Delco-Light distributors. A descriptive booklet will be sent to you on request.

DELCO-LIGHT COMPANY

Dept. H. G. 7 Dayton, Ohio

Subsidiary of General Motors Corporation

Frigidaire
THE ELECTRIC REFRIGERATOR for MODERN HOMES

Metal Lath for Permanent Construction

(Continued from page 70)

fully proportioned to the load they are to carry. If the home-builder proposes to superintend the construction of his own home, he must impress this point on the mason. The slightly greater amount of concrete required for the construction of a satisfactory foundation, as compared with one that is skimped or barely sufficient, is so little and so inexpensive that it is positively foolhardy to propose to save any money on this extremely important part of the building. Footings on ordinary soil should be 12" to 15" wide and 6" to 8" thick for 8" foundation walls. Where a portion of the basement of the building is unexcavated, foundation walls or piers must be carried down below frost line, otherwise, alternate freezing and thawing will throw walls resting on them out of plumb and cause plaster cracks.

If the question of expense is a very vital one, metal lath can be used to

protect only the five most vulnerable points in connection with fire. Ceilings under inhabited floors, chimney breasts, stair-wells, at the juncture of floor joists and walls, and the partition angles. Application of metal lath to these vulnerable positions is exceedingly simple. The sheets are first applied to the ceiling and carried down 6" onto walls and partitions. This effectively prevents corner cracking. Three coat plaster work is necessary for first class workmanship. Any kind of plaster—Portland cement, lime or gypsum gives excellent results.

Corner cracks are the most unsightly and unnecessary cracks that occur in buildings. They are also the most frequent. Tests recently made at Armour Institute prove that a 12" strip of metal lath bent into the corner, even where ordinary lath or plaster-board is used, will prevent corner cracks.

If You Are Going to Build

(Continued from page 76)

The newer tubs are lower than the old ones that were set on legs. For this reason they are much more convenient, and can be kept in perfect order by immediate cleansing after every bath. If a shower bath is to be used, that also must be decided upon while the plans are being made.

In order that there may be a constant supply of hot water, regardless of kitchen needs, a hot water heater is usually installed in the cellar. We have already mentioned the heater that consumes garbage and therefore has only the expense of the original installation. The tank and bowl of the modern bathroom must be constructed of hard-fired vitreous china, and closet seats are now furnished with a hard finished white surface that will not discolor or chip. A new feature in bathroom fittings which is being generally installed consists of two china handle controls for the hot and cold water, supplying the mixed tempered water through one spout, permitting the user to wash in running water. In some of the tiny apartment bathrooms a pedestal lavatory is used, which can be hung on the wall. This is excellently constructed and takes up a minimum of space.

Insist that your architect makes a special study of the kitchen plumbing. An excellent one-piece sink includes a basin, drainboard and back. This is one of the most sanitary sinks purchasable. Watch carefully the setting of sink and washtubs that they are not too low. The average builder takes no thought of the unending torture a low sink brings to housewife or servants.

Plan your heating scheme in the winter, take a blustering day with the thermometer dropping, the wind blowing in under the door and whistling around the windows; you will then consider the heating question with well deserved seriousness, and you will never hint at economy. Health, comfort and peace of mind are all involved in the adequate heating of your house, and this means for the halls, the maid's room and the sewing room, as well as those rooms that would inevitably suggest comfort. After all, your big bill for heating is the price of coal and an excellent heater that gives you the utmost heat from your fuel, and that does not have to be repaired the first season, will save money in the long run.

Don't decide to install some system of heating because it has worked well in a friend's house. Homes differ in their heat requirement according to size,

shape, location, climate, number of rooms, building material, the way the house is built and the amount of money you spend in construction. If your home is located where there are rapid changes of temperature within a few hours, you must install a heating system that will respond to this condition; if on the other hand, your house is to be located where there is a broad sweep of wind, exposure on all sides, you must plan the heating system that will meet this difficulty. A long, narrow house will require one kind of heating, a wide square one another, the bungalow type of house will have to be heated differently than the five-story apartment.

You can sum up the heating systems used in a modern house into six classifications: The fireplace, stove, hot-air, steam, water and radiator heat. The expense of putting in a heating system varies in different locations and in different types of houses. In the main you will find that steam heat and pipeless furnace are the least expensive, and hot water and the vapor systems the most expensive. The upkeep of any one of these systems depends upon climate, size of house and number of rooms heated, also you must consider the way in which your heating plant will be run. You undoubtedly would manage it economically yourself, and you might find someone who would do this for you, but as a rule someone outside of your house will run your furnace expensively.

Of course nothing is so delightful as an open fire. Every house should have an open fire in the sitting room no matter what the heating system. It saves money by giving you a little heat in the spring and fall; it is most cheerful and friendly on frosty fall evenings and it certainly makes for intimacy and companionship in the home. It can be used in small apartments and small bungalows without other heat, provided coal is burned and care is taken to keep the grates cleaned out, but as an auxiliary to some heating system it is not only luxury but an economy.

Stoves, especially the air-tight variety, are quick heaters, but it is impossible to heat to an even temperature with them, and the use of stoves means that there will always be cold halls and some cold rooms, not to mention the work and worry of taking care of the stoves.

One advantage of hot air is that the system requires no space in the rooms.

(Continued on page 84)



FROM A GRAFLEX NEGATIVE MADE WITH KODAK ANASTIGMAT LENS f.4.5

GRAFLEX

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Gillies

Walls and floor of faience in dim tones of blue and buff are used in the master's bathroom of the home of Mrs. L. T. Field, Great Neck, L. I. A low vaulted ceiling adds much to the character of the room. Courtesy of the Crane Co.

If You Are Going to Build

(Continued from page 82)

In a small house or flat this is a great advantage. But you cannot successfully heat your house with hot air without being sure that the pipes are installed with rigid care. All pipes exposed as well as the furnace itself should be covered with asbestos. It will give you a saving from fifteen to twenty percent on your coal bill.

If you want to heat a small house that is compact and weather-proof, a pipeless furnace may solve your problem. It is a new idea, simple in construction, easy to install and will burn either wood or coal, but it means that doors must be open to receive the heat from the main source and the second floor must be heated with radiators opening from the first.

Hot air furnaces should be located in the center of your cellar and radiators placed along the outside walls, and as near the windows as possible. There are three types of hot water heating, hot water, steam, vapor or vacuum. To make any one of these a success you must have a good-sized boiler and the best steam fitting available. It is impossible to get good results from any one of these methods of heating by using cheap labor, inferior valves and poor equipment. Steam installation is less expensive than hot water because only a single circuit of pipe is required, whereas with hot water you need a second series of piping called "returns" to get the cool water back to the boiler for re-heating. Steam also requires smaller radiators and smaller pipes.

Nowadays you can control all heating plants from the floor above by having an electric damper regulator installed. This helps to save fuel and to keep an even temperature. If you are building your house on one floor, it is possible to install both the radiators and boiler on the same level.

An admirable idea for the very small house is a small hot-water heater that looks like a cabinet. It can be placed in one of the large rooms and supply heat for the various radiators.

Vapor systems are practical in both large and small houses. They are a source of sure and constant heat in homes where there are a large number of rooms to heat.

In order to give the best results from any heating system and to conserve coal, you should make sure that you have a chimney of ample size and height, also that it is free from air leakages and extends well up above the roof.

The best heating system in the world will accomplish nothing if your windows and doors are loosely fitted so that the cold air can blow in about the feet. This can be obviated in the winter by double windows or steel sash protectors. It is also wise to study into the size of the boiler that you put into the heating system. A certain sized boiler will supply a certain amount of heat for so much coal used. Your builder will undoubtedly be able to compute this for you. He will also look into the selection of valves. In hot-water heating jobs the valves should have a brass plate and these should be of the self-packing type. There is so much detail in connection with the heating of the house that you have got to take every bit of it into consideration if you want a comfortable home. Begin with the equipment, then the installation, a study of your house; make sure that good coal is delivered, and then that the furnace is well managed. Failure along the line of any one of these necessities will leave you a cold house in spite of much money well spent.

If you will recall various romantic and dramatic experiences of your life, nine times out of ten you will remember the lighting of the scene. And the episodes will come back to you bathed in moonlight or vaguely outlined in twilight; perhaps you will remember a profound tragedy cruelly clear against the warm light of an open fire, or the vivid light of a theatre will recall some sorrow or mournful incident enacted against the gay scene. The same is true with joyous experiences.

Light plays an amazingly intimate part in our lives. We have also grown to know with absolute certainty that light plays a most significant part in our health and peace of mind and in the aesthetic possibilities of life.

There are really but two practical systems of lighting recognized today, gas (Continued on page 86)



SHEER, unalloyed joy in motoring is reserved for the woman who drives a Cadillac.

With every mile of its swift, easy flight the conviction grows that hers is the unique and utterly enviable automobile experience.

Where else could she secure the strong, silken power, the comfort, the distinguished and arresting beauty that so charm her in her Cadillac?

Where duplicate its dependability, which makes continuous, extended enjoyment of motoring pleasures so definite and so serenely certain?

Could any automobile be more responsive, more refreshingly easy to control and to drive?

Is there any equal anywhere for the flawless performance, on the shopping trip or the vacation tour, that she knows is hers in the Cadillac?

Every woman who has had even so much as a single ride in the Type 61 Cadillac is unalterably convinced that it is the great motor car of the world.

And when she becomes an owner, her delight in the Cadillac is quickened by the knowledge that all of her associates concur in acceptance of its leadership.

CADILLAC MOTOR CAR COMPANY, DETROIT, MICHIGAN
Division of General Motors Corporation

C A D I L L A C



Standard of the World

If You Are Going to Build

(Continued from page 84)

and electricity, for oil and candle light are only used where it is impossible to get the more modern systems. But the different methods of using these two systems and the variety of lighting fixtures and shades are simply countless.

The question of house lighting is one of the most absorbing and difficult and subtle that the decorator and home-maker have to face. Of course at the beginning of building you decide about the kind of lighting you are going to employ and then the exact system that will give you the best results, and, so far as possible, just where you want the lights brought through the walls. Then you decide whether you will employ direct or indirect lighting systems, whether you wish top or side lights, and how many you will need through the entire house in order to judge of the volume of light that has to be introduced into the house. For the reception room you may want some of the new and spectacular chandeliers, some of them amazingly interesting in jet and crystal, or you may want the more quiet diffused lighting. For dining room and bedroom, light from the side walls is preferable, though diffused lighting is also practicable in these rooms. For sitting room and library, you will want not only side lights, but many table lights and a diffused light if you do not care for shadows. In the smaller rooms a sense of light and shadow is more intimate and beautiful. For the kitchen and cellar, a light wherever definite work is to be done. An ample number of electric plugs in the baseboard of all rooms is essential.

Lights are needed in every closet, and the sewing room particularly should be well lighted. You may want to plan some cozy twilight sort of corners, but in the main there are lights, too, for these places. Even your porch in the country, that almost last stronghold for lovers, may be lighted, without warning by pressing a button.

On the other hand it is delightful to be able to read on a hot summer night out on a cool porch. As a belated guest, it is most comforting to find a brilliantly lighted porch beckoning you into the house. Light is really the handmaid of hospitality. But remember there is no circumstance in which the uncovered bulbs are not a cruelty, even with the present craze of turning the light on every conceivable spot and person.

By all means join the procession for brilliant lighting if you wish to; but also remember that there are possibilities of diffused light and beautiful ways of shading bulbs. Soft lighting is recommended for the hallway, say between one-half and one-foot candle power. The strength of light for your tables and even for your side brackets should be at least three-foot candle power.

Semi-direct lighting alone is not advisable. A home is more peaceful and restful with a certain number of soft lights and with the comfort of occasional shadows. No modern bedroom is complete without reading lights at the head of the beds, arranged to turn off without lifting one's head from the pillow.

The more deeply one studies into the lighting question, the more one is compelled to acknowledge that the modern ideal of luxurious living could not be accomplished without the elaborate and complete systems of lighting which have robbed us of so much romance and picturesque adventure. Perhaps this can never be an age of romance, but it is an age of beautiful rooms and lovely women and gorgeous clothes, and for these things we must have light. It is also an age of study and research and for these things we need much light. So study your lighting catalogs, and plan a system of lights that will make every room of your house convenient and comfortable, saving a few friendly corners if you consistently can.

NOTES OF THE GARDEN CLUBS

THE Garden Club of Nyack, organized in 1915 and of which the President is Mrs. Joseph Hilton, has a membership of 125 women coming from the four Nyacks, Tarrytown, Palisades, Suffern, Grand View, Sparkill and several other places. Meetings are held bi-monthly, unless a field day or flower show is substituted; from May through October. Many of the programs have been prepared by members, sometimes groups taking up a topic under a chairman, as at one meeting when four women, with Miss J. S. Salisbury for leader, considered Experiences from Our Kitchen Garden. On other occasions roses were treated in a similar way, or again several members would talk of annual and perennial varieties of the same flowers, as hollyhocks, asters and phlox.

A list of the topics presented by individuals included "Birds, Butterflies, and Other Garden Kinfolks" by Mrs. F. V. Green; "My All-Year Garden and a Few Hens" by Mrs. Gerrit Smith; and "Gardens in Many Climes", Mrs. Arthur C. Coan. Lectures at the Nyack Club have been given with slides on Rose Gardens of America and Other Countries, by Robert Pyle; Some English Gardens, by Mr. Edward J. Farrington; and Birds in the Garden, by Miss Nina Marshall. Other professionals addressing the club included Miss Jay, Leonard Barron, Charles H. Totty, Mrs. William Verplanck, Mr. Britton, and Mr. Arthur F. Buys. On Poetry Day Miss Louise Driscoll read her poems.

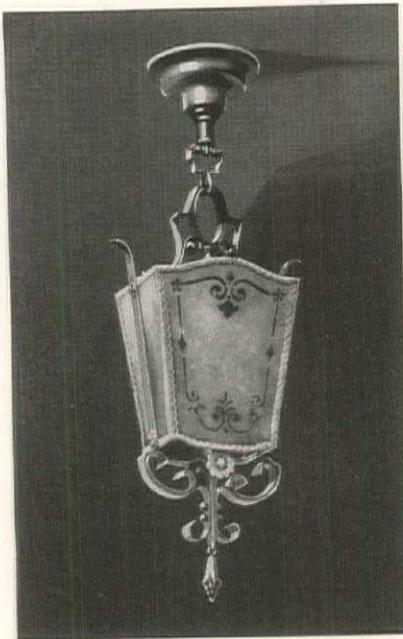
At each meeting there are three exhibitors, and in June and September there is a flower show in the Auditorium of the Nyack Club. For field days trips are arranged to the New York Botanical Gardens or to a private place, as the Garden of Louise Beebe Wilder, whose book was considered at a previous meeting.

The Nyack Garden Club is governed in a most business-like way by its extensive Constitution and By-Laws, and a year book is printed. Among the several committees is one on Distribution, which systematically collects and distributes vegetables, fruit and flowers to the Nyack Hospital. During the war an Open-Air Market was conducted on a government lot; also a canning kitchen in connection with it.

The most important work accomplished by the Garden Club is said to be the complete making over of the grounds of the Erie Station, supplementary improvements being made to the four neighboring stations, by placing window-boxes in them. As the Club is constantly interested in village improvement it is consulted by the Business Men's Club of Nyack on many occasions.

THE Garden Club of Staten Island, of which Miss E. Alice Austen has always been the president, was organized by her in 1914, and is composed of 80 members. Throughout the year meetings are held at least once a month, and oftener in the spring and fall.

(Continued on page 88)



Riddle

DECORATIVE LIGHTING FITMENTS

For the Solarium



IN the sun-room, where color is such an important element, the rich decoration of Riddle Fitments in Silver Estofado and Gold Estofado is most effective.

The illustrations suggest a Riddle ceiling fitment, wall sconce, aquarium and lamp well suited for solarium or other informal setting.

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will give you a new conception of the beautiful effects possible in lighting fixtures. Illustrated with actual color reproductions of wall and ceiling pieces, lamps, luminous, torcheres, Vellumesque shades, console sticks, etc. Copy sent on request. Please address Dept. 262.

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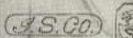
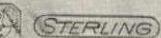
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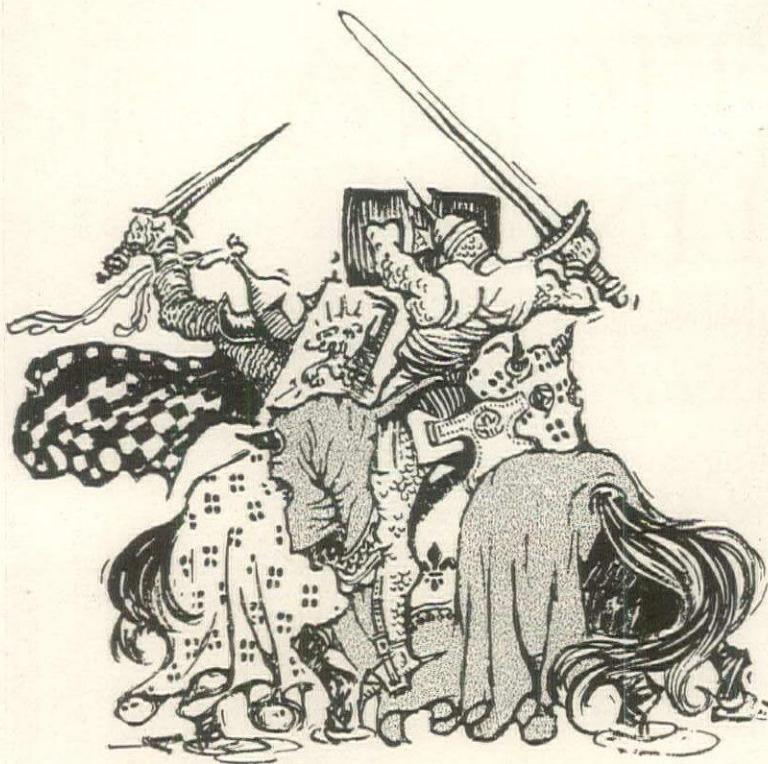
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The central window and entrance of the Friends School at York, England, designed by John Carr, both show evidences of Palladian adaptation to their designs

The Palladian Window and Its Use

(Continued from page 50)

dow, one of the most pleasing occurs on the first floor of a house in Buckingham where the pilasters and entablature are suppressed and we have only the Palladian shape, in low projection, as the front of a bow. The same suppression of entablature is seen in the house at Chipping Norton, but here the pillars are retained to support the architraves of the side lights. This dispensing with the entablature is justified by the desire to keep the windows of a simplicity and attenuation of detail consistent with the rest of the facade.

If there be any who cavil at the repetition of Palladian windows in the 18th Century houses at Pershore as being in questionable taste, there is this to be said in their defense: they at least achieve the quality of interest. They are individually of pleasing form and of acceptable detail. Furthermore, from the purely utilitarian point of view, they are warranted by the amount of light they admit to the interior in a place where it would have

been impossible to use two other windows without destroying all balance between solids and voids in the composition.

In modern domestic architecture there is, perhaps, no other single feature more constantly misapplied than the Palladian window. Time and again it is dragged in as a kind of architectural sugar plum, without due consideration of its nature or of the nature of the building it is intended to grace. To avoid such misapplication and discounting of value it is necessary to keep in mind two things. First, the Palladian window must have space. To crowd it and encroach upon it with other features is to belittle its importance and destroy half its effect. Second, it is essentially a dignified feature. Be sure, therefore, that the building in which it is placed is of a character befitting the dignity it confers. To use it in an insignificant house, or to include it in a feeble or unworthy composition, is to perpetrate architectural bathos.

Notes of the Garden Clubs

(Continued from page 86)

THE Kent Garden Club of Grand Rapids, Michigan, whose President is Mrs. Phila L. Hamilton, was organized in 1913, by Miss Grace Griswold, who was recently graduated with honors from Cornell University as a landscape gardener.

The membership of the Club is limited to 65 women doing personal work in their gardens. Beginning with a luncheon in March, meetings were held bi-monthly through October. The program is always attractively printed, and in 1921 included papers on Japanese Flower Arrangement; Observations in the West Indies and South America, by Mrs. F. Stuart Foote; Life Work of L. H. Bailey, Mrs. Charles H. Garfield; What the Twentieth Century Club of Detroit does for the Garden Movement of That City; Evergreens and How to Grow Them in Michigan, by Mr. John Martin, and Summerflowering Bulbs, Hardy Primroses, etc. Mr. Edward Freyling spoke on Rock Gardening and Mr. Robert M. Teele on Attracting Birds.

There is a daffodil show arranged annually in the Art Association Rooms, Grand Rapids, and, by permission of the Mayor, flowers have been sold from tables placed in the streets in front of some of the important buildings, and also in a "hut" built for the soldiers. The proceeds from these sales, and the supplementary receipts from disposing of seeds and bulbs, were partly applied to the support of nine French orphans during the war and after it to five of these children.

The most important work of the Club is encouraging school gardens, prizes of money being awarded for the best exhibits. A principal of one school, who was a member of the Garden Club, designed and developed such a remarkable garden in the school grounds that she lectured about it with slides, as far as Minneapolis. Two members of the Kent Garden Club belong to the Garden Club of Michigan and others to the American Rose Society and the Horticultural Society of New York.

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The cane, willow and rattan furniture shown here, though much more sturdily made, much more carefully finished, much more attractively designed than is usual, is actually less expensive than most of the summer furniture available throughout the season.

This statement is printed because we feel that a frank statement of price policy is due to our patrons who deal with this house on a basis of confidence that is highly gratifying.

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The custom of draping the four-poster with testers on top and flounces below is an ancient custom. Here net is used, and chintz for the cover and window valances

Dressing the Bed

(Continued from page 68)

but we have also revived the enchanting painted furniture then in vogue, applying quaint designs to our own beds and pieces of bedroom furniture. With a gray or cream ground, any color can be introduced as a decorative motif and there are endless possibilities of color combinations.

In the unpretentious room illustrated here, the furniture is appropriate for a young boy or girl. It is of a simple peasant or cottage type painted gray and embellished with gay little garlands of flowers in conventional form. As both the walls and carpet rug are of a neutral tone, the room is enlivened by the introduction of color in the hand-blocked linen which is used as over-hangings at the window, as a covering for a roomy winged chair and as the long flat pillow on the bed. The bedspread itself is also of linen, dyed a solid color of old rose which tones in with the old rose and blue of the blocked linen.

In this room an interesting group of windows is curtained with over-hangings of the hand-blocked linen and a valance running across the top of the entire width of the windows. This room is a delightful example of simplicity that is harmonious because all of the accessories have been carried out logically and with unmerring good taste. Cannot any woman with a little thought and effort achieve similar good results?

A more formal room requires a more formal treatment of the bed. With the help of a vacuum cleaner, we can again revert to richer fabrics and to their more subtle handling. Soft taffetas are particularly effective as a material for hangings and bed coverings. We now have looms in this country that are fashioning silks as rich in quality and significant in design as any that won renown in the old world. There are infinite possibilities in dealing with this material because it lends itself so well to various uses.

Not only must a bed covering conform to the style of the room and the bed it is to adorn, but it must be well adapted to the structural form of the bed itself. For instance, if a bed has a head, footboard and rails of wood, they must not be submerged by hangings or draperies.

There are illustrated here two types of bed coverings of taffeta. The one on the day bed is of striped taffeta

edged with a valance of the plain material which is used again as window draperies. This valance does not cover the wooden rail of the bed. The long flat pillow is finished with a fluting of the plain taffeta and it is further embellished with appliques of flowers in solid color repeating the note of the stripe.

The other taffeta coverings are designed for beds that have neither rails nor footboards, so that they closely hug the sides and foot of the beds, revealing the foot posts. The flat cushions are covered with lace and flutings of taffeta. A distinctive note is reached in the hangings at the window where the taffeta curtains are draped over a single fall of chintz. The cornice of the window obviates the necessity of a valance of any kind, which would lower the height of the window.

There are infinite ways of dealing with the day-bed, an institution which, in these times of concentrated space, has come to stay. When a room must do duty as both living and bedroom, the day-bed is an important feature and its treatment must take on the character of the room, whether of a formal or informal nature.

Besides silk, chintz and linen bed coverings, there are the delightful spreads of unbleached muslin and all-over patterns of "French Knots" or tied knots that were a well-known craft in the South of the early days. This old handicraft has been revived. These practical bed coverings look especially well upon Colonial beds of walnut and mahogany or simple painted types. There are also East Indian stuffs of silk or cotton, very soft and rich in color, that are appropriate for certain rooms having something of an Oriental flavor, but in chaste little rooms with white enameled furniture and painted metal beds, dotted muslin or heavy white linen bed coverings will always look crisp and fresh.

It is easier to bring variety into the bedroom than in the other rooms in the house, especially if we delight in the simple, decorative fabrics that are comparatively inexpensive. Every few years we can afford to change our hangings, bed coverings and loose slip covers, for taste, like every growing faculty, develops with the years and it is a pleasant feeling to know that we need not always live with our mistakes.

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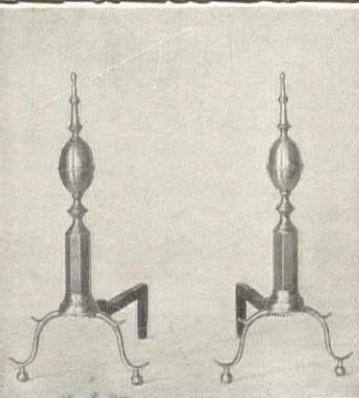
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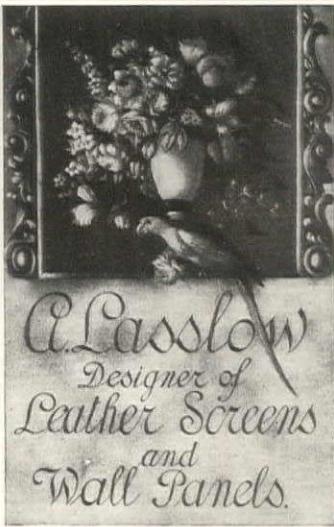
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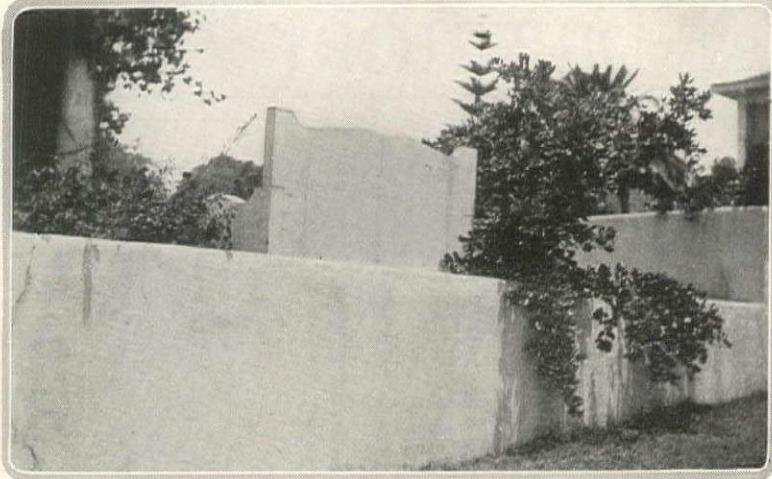
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A retaining wall like this calls for the softening effect of fine leaved vines growing up from its foot. Well selected shrubs along its top would add privacy and improve the appearance of the wall

Retaining Walls in the Landscape Scheme

(Continued from page 74)

for both purposes. In fact, they seem to be almost the *sine qua non* of an Italian layout, and one can study the most simple and elemental form in the peasants' yards in the countryside or the grandiose sculptured stone walls of such far-famed gardens as those of the Villa Lante or Tivoli, outside Rome. But all were built for the same reason and use, and need preceded beauty.

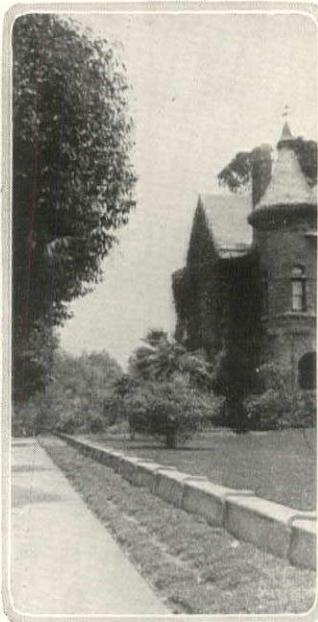
In France, only in the more rugged portions in the south, does one find the best examples of retaining-walls, with logical reasons for their use. In many famous gardens in the central and northern provinces they were used without real need, and hence have a very artificial appearance. In England the garden wall proper, has had far more attention lavished upon it than the retaining wall, and largely for topographical reasons.

In the United States, California, especially the southern part of it, offers natural conditions more nearly approaching those in Italy than any other State, and for that reason one finds there the greatest development in this line. They really have to have them there in most cases, and they look well almost everywhere because the feeling of artificiality is absent. Elsewhere in our country they are but sparingly used, or they should be so used, and in all cases should be determined by topographical fitness.

There being no marked disadvantage except that of possible inappropriateness in having a retaining wall, let us consider some of the advantages. Chiefly, they are three in number. We all know how hard it is to keep grass growing on anything more than a very slight slope. The moment you exceed a certain angle, erosion begins to take place and you can have no good turf, nor even beds of border shrubbery, because the rains cut the loam out and expose the roots. Grading of the lawn, for instance, is a means of avoiding this difficulty but successful grading is not an easy thing to accomplish. The retaining wall will serve in its stead.

In the second place, once you have built the retaining wall, you suddenly discover that besides its fulfillment of a need, you have added to your estate an ornament of the greatest possibilities, other things being equal. This point will be developed in detail later on, but in the rough, you find yourself gazing upon what in many cases plays the rôle of a garden wall. From the sidewalk or pavement or lane the passerby gets a foreshortened view of the house and grounds, and, depending on the wall's height, considerable privacy, the first aim of the regular garden wall, accrues to the owner of the grounds. Not only may a wall of only 4' bring about this effect, but a lower one, reinforced with shrubs, will do the same.

In the third place, from the windows and porches of the house the owner (Continued on page 94)



Unless there is practical utility as well as good looks in the retaining wall its use cannot be justified. Here is one which means nothing structurally and has no interest of form, color or texture

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Retaining Walls in the Landscape Scheme

(Continued from page 92)

looks down not on frazzled edges, gullied by the rain, with poor turf at best, but on a lawn or garden in good shape with a definite, clean-cut edge, which in most cases foreshortens against the street, leaving out of view the sidewalk and even some of the pavement. Quite obviously, also, the more level boundary line due to the wall opens up great planting opportunities both in shrubbery and perennial borders or both.

Before analyzing the specific examples, let us say just a word about form, texture and color, the three guide-posts for all who essay any form of visual art. As to form, the length, breadth and height are pre-determined entirely by conditions. The land surface and its consistency largely control these dimensions. The architecture alone is open to choice, and in the main, as in the case of regular enclosing garden walls, this will be in harmony with the house style, if not of the same material.

Influence of the House

Color and texture, too, will be determined by the appearance of the house to some extent. However, it will be found that the most charming results are attained where native conditions are allowed to dictate both house and wall texture and color. For instance, if field-stone is available nothing is more pleasing than its proper use both in house and garden walls. If the terrain abounds in granite boulders, then a use of these is desirable. Those who have been in Bermuda and the West Indies recall the use of blocks of coraline rock, constituting the sub-stratum in those islands. These blocks are carved right out to form a cellar excavation, and used as building materials. In Southern California there is an adobe-like clay rock that is readily available and being of a terra-cotta color makes exquisite wall textures. Thus, the texture and the color, too, are influenced by what is at hand. In addition, color can be achieved in infinite variety by the use of various tints on plaster and stucco and the thousand and one vines and creepers flowering and otherwise. Thus, individual needs as well as whims and fancies can have free play.

In one of the illustrations there is shown a highly individual and successful treatment of steps in a brick retaining-wall and an unusually pleasing transition of wall to grassy slope. The need of further support ceased, hence the wall ceased and a simple shrub marks its ending.

Another picture shows a delightful novelty in a combination garden and retaining wall, each fulfilling its function to the limit and each in itself splendidly worked out. A local sandstone in shades of tan, yellow and orange is used with a casual application of mortar, giving an informal effect. There is a stained picket fence in combination with the sandstone for a regular garden wall. Not satisfied with that, evidently for the sake of added privacy, great overhanging shrubs have been planted inside. In this case roses were used, but *forsythia suspensa* would have been fully as charming. Taken as a whole, this is one of the

happiest combinations of the three mediums, everything in keeping with the rules governing form, texture and color. Use and beauty go hand in hand with high individuality and without great expense, the utmost simplicity prevailing.

Sometimes a retaining wall would be entirely too expensive, and yet there is the problem of what to do with a steep bank or an outright cut, where, for instance, an avenue comes through. Such cases lend themselves easily to vines or ground-cover planting and provided it be wholly or partially evergreen, a very satisfactory result is reached. English ivy (*Hedera helix*) or some eonymus are good.

A singular charm issues from the illustration in the centre of page 74, which is a decided novelty in retaining walls and yet adheres to the laws governing them. It is in a land of many rocks and boulders and very frequently there are outcroppings right in the lawns and gardens. What more natural than that the walls should be built of the local stone! The greatest harmony is a result and the dictates of color and texture are fully satisfied. But the specialty of this wall rests in the size of the crevices which allow of individual planting and thus a kind of rock garden arises, which contains arabis, sedums, cotoneaster, aquilegia, primula and others. Thus overhanging shrubs and climbing vines are done away with. Instead there is an infinite variety of color and texture and play of light and shade. The corner boulder with a branch of red-berried cotoneaster drooping over it is lovely, the bare stone adding its own touch of interest to the whole setting. This is offered as an eminently successful solution of a problem.

What to Avoid

Finally, we come to two examples of what not to do, the first a plaster over brick wall, which in itself is pleasant in tint and texture and line. The two scrubby bushes that hang over are absolutely wrong, soft fine leaved vines being required, growing up from below. A consistent planting of proper shrubs at the top would give privacy and also enhance the wall. What spoils this wall especially is the hideous naked seat or garden bench backed up against it, utterly ruining all beauty of line from the outside and giving the person inside an uneasy feeling of insufficient support since naught but thin air is its background. This teaches one what not to do with a garden seat as well as garden walls.

Remove the seat and the wall can be made beautiful by planting and the seat when properly placed and backed with a suitable setting could be the focal point of a charming vista, even if a short one, as in a city garden.

The last illustration is a cross between a regular garden wall and a retaining wall but is ugly either way. Hard white concrete banded like a barrel drawn tightly in a strip around two sides of a big yard, which contains a house of red sandstone, is open to every kind of criticism. Structurally, it means nothing, it has no use, no beauty, no interest of either form, color or texture.



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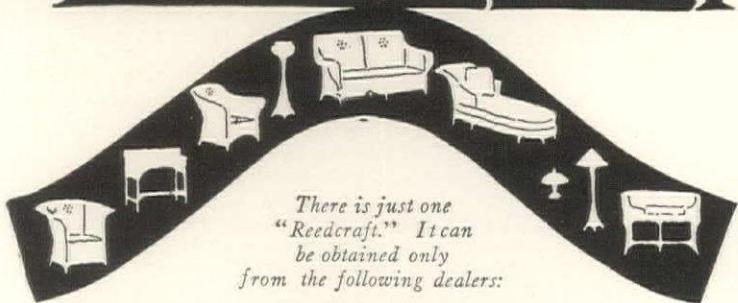
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*There is just one
"Reedcraft." It can
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from the following dealers:*

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Paine Furniture Company Boston
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THE REEDCRAFT COMPANY

LOS ANGELES
827 West Seventh
939 South Broadway
Chicago, 916 Michigan Ave.

CHARMINGLY TRIMMED WITH REAL DRESDEN FLOWERS, THIS CANDLESTICK IS WELL SUITED FOR THE COUNTRY HOUSE MANTEL OR CONSOLE, SURPRISINGLY INEXPENSIVE

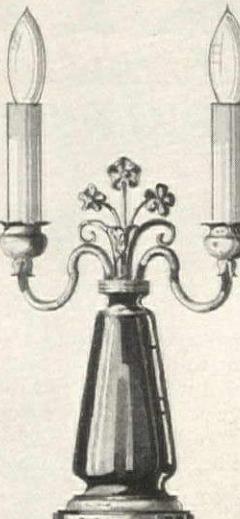
CASSIDY COMPANY

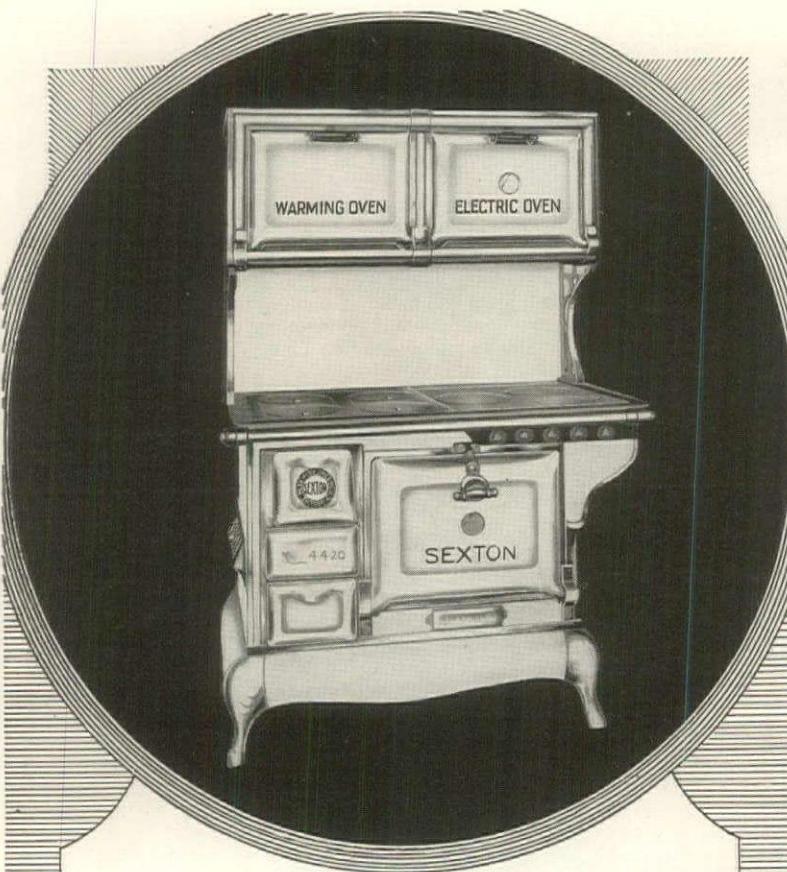
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Designers and Manufacturers of Lighting Fixtures

Since 1867

101 PARK AVENUE AT FORTIETH STREET
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The Most Beautiful Range in America

Of pure white porcelain enamel—with handsome nickel trimmings—this Electric and Coal Combination Range has been the point of interest at every Better Homes Show where it has been exhibited.

SEXTON

Combination

ELECTRIC & COAL

It is intended primarily for those homes of the better type—especially those where gas is not available. Each unit of this range is large enough in itself for the requirements of the average family. The electric unit in actual tests has shown a food saving that averages 15 to 20 percent in cooking or baking. It also assures a cool kitchen in the hot summer weather—or when the added heat is desired the coal unit can be used. Each is so constructed that they can be used separately or together.

Write for illustrated folder giving full descriptions

THE

S. B. Sexton Stove & Mfg. Co.

500 BLOCK W. CONWAY STREET BALTIMORE, MD.



Flowers for Far and Near

(Continued from page 47)

is its value. Flowers of a light to middle value are visible at a greater distance than those below middle value, for below the centre of the scale, so to speak, color intensity ceases to make itself felt. For example, Spark's variety of monkshood is a very clear glowing purple, but the glistening flowers absorb into the background so quickly because of their dark value that it is useless to plant them as a "far" flower. On the other hand, Aconitum Napellus, another variety of the same flower, which is a few degrees lighter in value, and if anything, less intense as to chroma,—is effective at considerably greater distance. Some of the maroon dahlias, the darker blue delphiniums, the purple veronica or iron weed, are all examples of considerable color intensity but dark value, and consequent low carrying power.

Of course, it is quite possible by the use of quantities of these flowers, more especially those of light values, to offset to a great extent the ineffectiveness of individuals, by multiplying numbers into a mass to make an impression on the landscape. This is true of Queen Anne's lace, a grayish-green-white flower; of certain of the asters; of the same sea-lavender I mentioned a while since. Moreover, in the case of many sorts of flowers, desirable to mass them in the distance, because of the beauty of such a misty cloud of flowers itself, or because the individual blossoms are comparatively uninteresting in shape. And this brings us to another factor influencing the near or far character of a flower,—that is its form.

It is the right color which fits a flower to be effective at a distance, and the wrong form that unfits it for use near by. In other words, the form matters not at all in flowers seen from a distance if the color is of a sort to carry well, but of flowers near at hand the shape must be pleasing, and their habit of growth good, or the most beautiful color in the world will not make them desirable.

The chicory is an excellent illustration of this point; it grows in a fashion so straggling as quite to offset its priceless color for use in the flower border. Some flowers are like certain sketchy people,—their general effect is good, but

they lose interest at close range because of what might be called local inadequacies. In this class fall the shaggy asters, the graceful boltonias, goldenrod, sun flowers, *Salvia azurea*, even the lovely anchusa. Perhaps the flower form itself lacks interest, perhaps it has an unpleasant habit of turning brown in the center like the asters, perhaps the silvery blue petals are too sparse in proportion to the amount of green stem and calyx as in the salvia, perhaps only a few flowers along the stem open at a time. There are various reasons why the back of the border should be reserved for the less well-dressed of our flower friends; their company is necessary to make up the audience, but one prefers the front rows filled with the regal splendor of delphiniums, the trimness of phlox and the ruffly prettiness of Canterbury bells.

Those flowers which grow near the ground and lurk under their leaves are, of course, lost to view if planted any great distance from the beholder; violets, pansies, forget-me-nots, bleeding heart, are among the less conspicuously carried blossoms and they need to be given a foreground position in the garden if their charms are to be appreciated to the full.

Many other flowers there are, the delicacy of whose beauty is lost unless it can be seen at close range; the butterfly-grace of *Aquilegia chrysanthia*, the fairy poise of *Delphinium Moerheimii* (white larkspur); the curve of the buds of some tea roses. To use these for distance planting would be to hide their lights, or at least to obscure them, for when delicacy of detail constitutes a flower's chief charm it is best to display this charm, like that of old lace, where it can be examined.

Of course, many flowers which stand the strain of a "close-up" are effective in the distance as well, the larkspurs, California, Shirley and Oriental poppies, day-lilies, madonna lilies, Phlox Cocqueberti and the white and salmon phloxes. The test which a "far" flower should be able to pass, is: does its color carry well? Is it pleasing in quantity at a distance? And that which a "near" flower should fulfill: Is its form interesting and is its habit of growth a good one?

The Rock Garden of An Amateur

(Continued from page 63)

his rock garden he selected a section of an observant naturalist rather than the exploiting of established styles and scholastic doctrines without regard to personality.

As a distinguished creation of the self-active, ambitious type of American amateurs, the rock garden of Mr. Llewellyn represents first of all work accomplished with love. Picturesque, bulky ruggedness in construction gives us the sensation of a happy security in its permanent character. Successive evanescent arrays of flowers and foliage evoke cheer throughout the growing season, while the charm of the evergreen plantation's verdancy during dreary winter days never fails to exert its comforting effect on the human mind and vision. Adding in this case Nature's priceless gift, the brook, humored down the moonlit path of fanciful suggestions by an artist, we not only feel the communicative joy of our most advanced rock garden amateurs over work compelling general admiration, but we also realize that rock gardens by virtue of their artistic merits will enhance the beauty of outdoor surroundings and in time become the pride of many refined American homes.

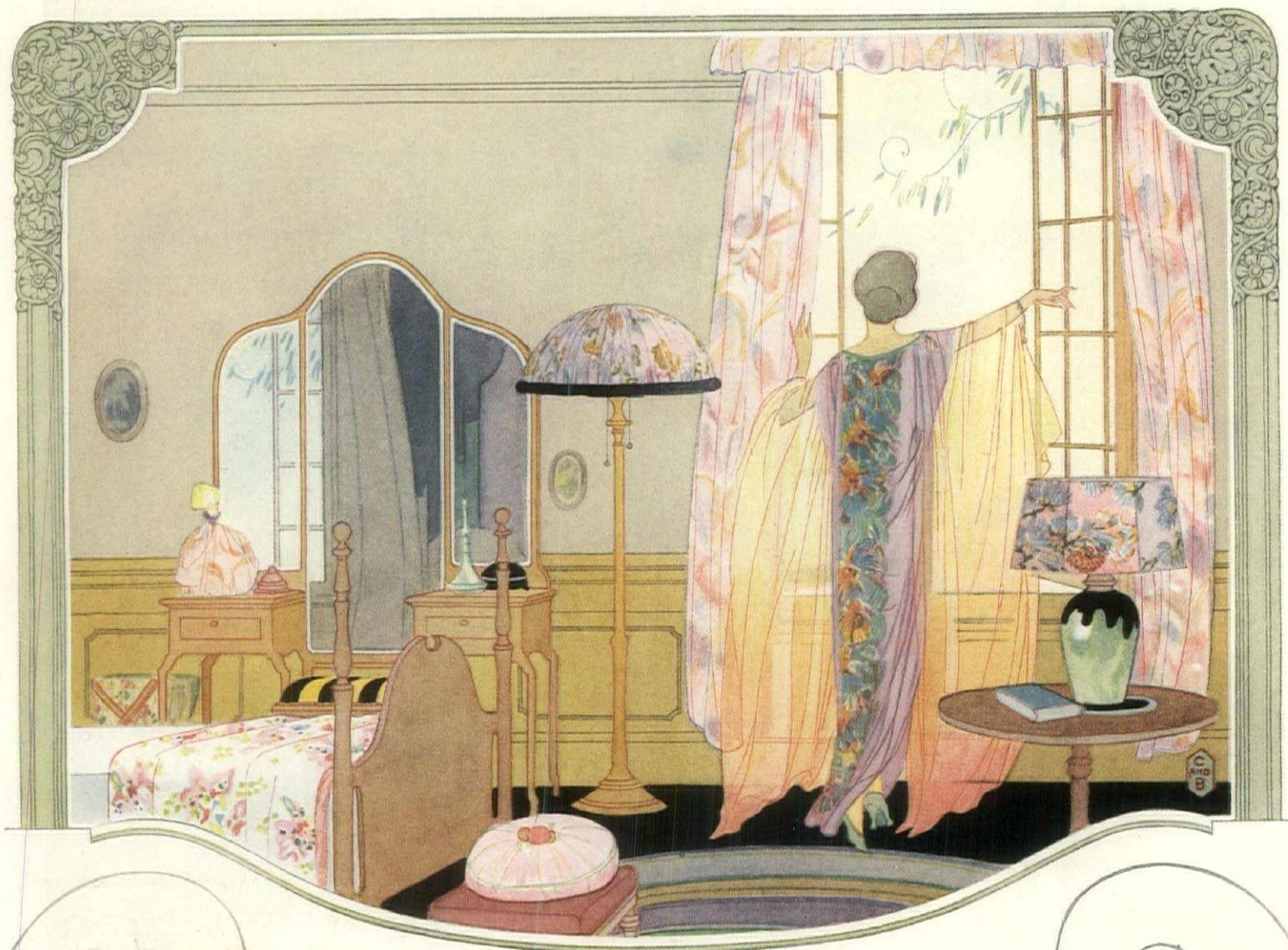


SUMMER time, summer furniture, summer lamps! The cool pastel shades and restful tans are colors which lend themselves well to the making of Handel Lamps that serve on summer evenings. In the veranda picture, is table lamp number 6931, pendant lamp number 6894—both equally as useful and ornamental indoors. A variety of boudoir, desk, piano or floor lamps are conveniently numbered in the small panel—each the individual product of an artist—a craftsman.

Follow your desire to own a Handel Lamp. Its beauty will never fade. Go to the Handel dealer near you and make your selection. There is a Handel Lamp for every corner.

THE HANDEL COMPANY, Meriden, Conn.

HANDEL *Lamps*



A fascinating lampshade banded with black marabou, a dainty bed-cover strewn with orchids, a négligée of tinselled purple with trailing sleeves of nasturtium crépe—here are a few lovely effects suggested by Cheney Printed Silks.

These silks—Florentine, Shikii, Mysore, Sweetbriar, Corean, and Satin Princess—owe their colourful design to a guild of artists from many lands; their exquisite texture is the work of master weavers.

Yet Cheney Printed Silks cost less than you would expect to pay, and they may be obtained in the dress-silk and decorating departments of many stores.

If you cannot obtain Cheney Silks in your neighborhood, write us for name of nearest retail store.

CHENEY BROTHERS
4th Avenue at 18th Street, New York

CHENEY
SILKS

Miss Swift

INTERIOR DECORATIONS

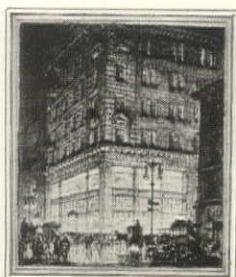
11 East 55th St
New York



Whether the dining room be planned for a summer home, or in the low-toned restraint of wood paneling and tapestries, the furniture and accessories should be in harmonious relationship.



Gifts for the Bride of June



THE June version of Ovington's Book of Gifts has just been printed. It contains hundreds of new and clever thoughts in gift giving. For Ovington's have gathered all the world over a marvelous collection of comely things which will thrill the heart of any bride.

The edition of this Book of Gifts is not unlimited, so we suggest that you write for it now.

An Ovington gift is an unspoken epigram, pleasant to utter and even more seductive to receive. And the ratio of cost to satisfaction is surprisingly low!

OVINGTON'S

"The Gift Shop of Fifth Avenue"

FIFTH AVENUE AT 39TH STREET



*An Enchanting Gift to
the June Bride*

The Brambach Baby Grand

Suggest the gift of a Brambach Baby Grand to any June Bride and watch her face light up with enthusiastic anticipation. For what new home maker does not dream of owning a Baby Grand?

The Brambach is a real artistic achievement—a compact grand piano—only 4 feet 8 inches long—individual in design and delightful and resonant in tone, at the price of a high-grade upright piano.

Displayed and sold by leading piano dealers everywhere.

BRAMBACH PIANO COMPANY

Mark P. Campbell, President.
645 West 49th Street New York City

Kindly send me a Brambach Catalog, together with a Paper Pattern, showing the exact floor space the Brambach requires.

Name

Address

Wash and Bathe in Running Water



A Shower When Fatigued

—proves the value of the shower when you are not

There's no better test of the shower—that it really does relieve fatigue and soothe frayed nerves—than to stand under those rushing, cleansing jets when you are really fagged out. Notice how the ache leaves the muscles, and how you are "toned up." It takes only a couple of minutes. And then again, you are *clean*, for you used the water only once—and it ran off.

Now, doesn't this instant relief of fatigue prove that the daily shower will build up a resistance against fatigue?

There are Speakman Showers for all bathrooms. The one shown, H-965, is a stall type. The *Mixometer controls the temperature of both the overhead shower and needle bath. Either of these can be used independent of the other.

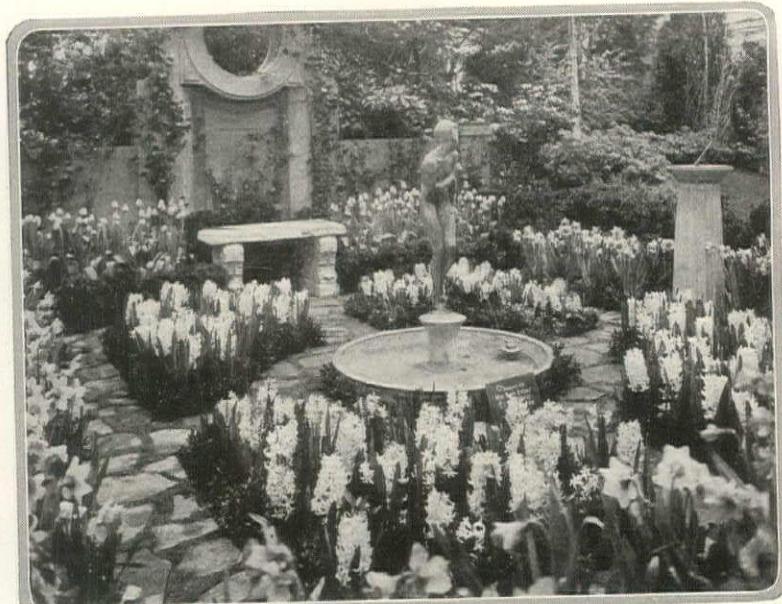
Your plumber knows Speakman Showers. Ask him for a Speakman Shower booklet—or write us.

SPEAKMAN COMPANY
WILMINGTON, DELAWARE

SPEAKMAN SHOWERS

PROMINENT FEATURES OF THE 1922 INTERNATIONAL FLOWER SHOW IN NEW YORK CITY

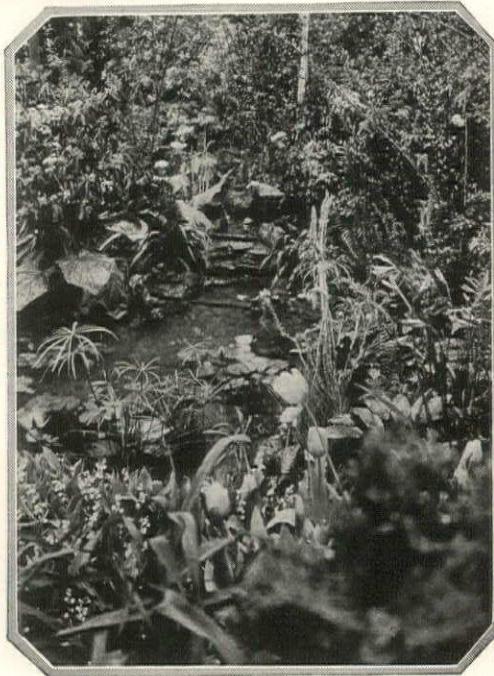
(Continued on page 100)



Levick



One of Bobbink & Atkins' offerings was a rock garden built on a hillock, the summit crowned by a rustic summer-house. A wide variety of rock plants grew in it

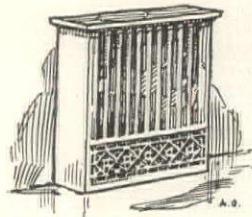


A glimpse in that part of the F. R. Pierson Co.'s garden which adjoined the bulb garden shown at the top of this page. One could scarcely believe that it was built indoors

The F. R. Pierson exhibit included two distinct but logically connected units—a slope of shrub surrounded lawn and stream and, separated from it by a low hedge, this delightful spring bulb garden, with its sundial, seat and fountain pool. All of the gardens shown on these pages were gold medal winners

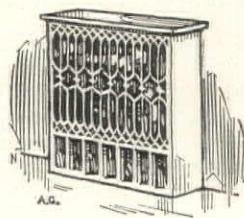
An Object Lesson On Radiator Enclosures

HERE is a delightful morning room from which alluringly opens a conservatory. The radiators in the latter are carefully concealed behind an especially designed grille, while those in the morning room, being unhidden, stand out like iron sentinels on either side of the doorway. How simple it would have been to have hidden them with a combination wood and metal enclosure, which is both simple to make and far from expensive.



The wooden part the owner could easily have had made, while we could have furnished the Decorative Metal Grilles, in any finish desired.

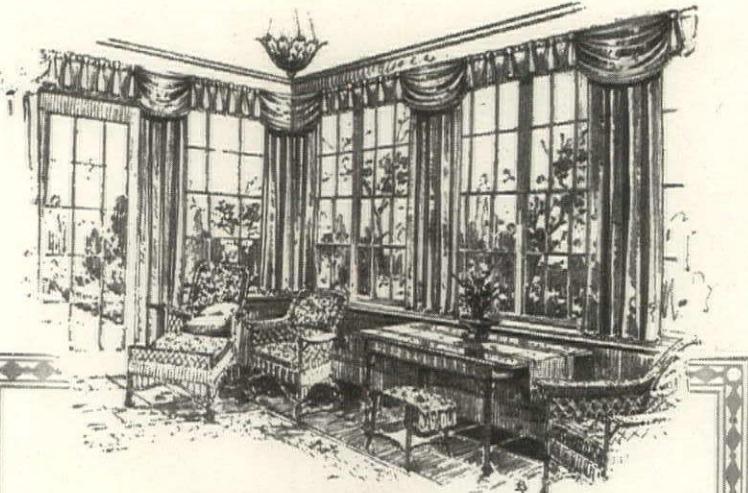
The sketches suggest two possible treatments, each using our regular Standard Decorative Grille designs, of which we have at least 500 designs to choose from. Our booklet called "Radiator Enclosures" is full of help hint suggestions. You and your friends are most welcome to a copy.



TUTTLE & BAILEY MFG CO.

2 West 45th St.

New York



KAPOCK
GUARANTEED
Silky Sunfast Fabrics

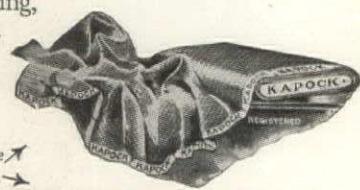
HANGINGS, upholstery, lampshades, wall coverings, all in rich, gorgeous KAPOCK with designs and colorings to match. Can you picture such a room?

*Many suggestions for beautiful harmonious effects
in our illustrated "KAPOCK SKETCH BOOK".
Send us your dealer's name and get it free.*

Don't forget that KAPOCK'S fade-proof, wash-proof colors and its double width for splitting, make it the fabric economical.

A. THEO. ABBOTT & CO.
Dep't C Philadelphia, Pa.

*Be sure it's KAPOCK. Genuine has name
or white basting thread on selvage. →*

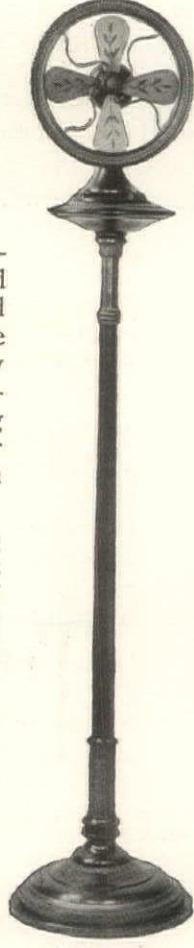


 ~Crucet
Fan Stands

A BEAUTIFULLY decorative Electric Fan complete, with carved pedestal to match, in Black Enamel and Gold or Ivory Enamel with attractive color stripes. It is a charmingly new setting for an electric fan and fits delightfully into any interior, insuring comfort during the breathless summer hours. The Fan is specially quiet in operation.

It is fitted with a three speed guaranteed Universal Motor, operated on either direct or alternating current. The base is heavily weighted, and the fan, which may be tilted in any position, securely fastened to the pedestal making it safe for any location. Price \$75.00, in either finish. 10" blade; height, 6'.

As dealers have not yet been selected in the various cities, you may order from us and we will ship through a New York dealer. When ordering by mail, send check or money order and fan will be shipped express charges collect.



Crucet Manufacturing Co.
292 Fifth Ave., New York

PATENTED



Residence of E. S. Mills
Hewlett, L. I.

John C. Greenleaf,
Architect

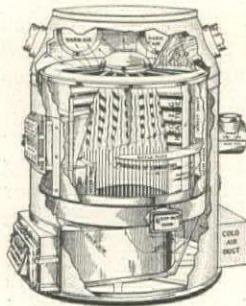
Choosing the Heating System

There are various kinds of heating systems, with much to be said in favor of each, but they are all embraced under two classifications: warm fresh air or reheated stale air.

Steam and hot water systems do not provide for fresh air, and the heat is so dry that the floors and furniture pull apart, veneers peel off, and many a valuable family heirloom is ruined. Then there is also the danger of bursting and leaking.

The Kelsey Warm Air Generator fills your house with warm, fresh air, a special cap forces an extra supply to the room that is hard to heat; the automatic humidifier provides a degree of moisture that produces health and comfort, the exhausted air is drawn off through vents at the floor line, and the cost for fuel is less than any other system.

Before you decide on your heating system, let us send you "Some Saving Sense On Heating" which explains the construction and operation of the Kelsey Warm Air Generator.



THE KELSEY WARM AIR GENERATOR

(Trade Mark Registered)

237 James St., Syracuse, N.Y.

New York Office
565-K Fifth Ave. (Cor. 46th St.)

Boston (9) Office
405-K P. O. Sq. Bldg.



Trade Mark

Registered



Walks that wound among dogwoods, magnolias and other blossoming things invited exploration and leisurely enjoyment of the flowers on all sides

Prominent Features of the 1922 International Flower Show in New York City

(Continued on page 102)



Rockwork sprinkled with groupings of iris, saxifrage, ferns and a host of other plants, flanked a narrow path through the shrubbery. The two views on this page were taken in the Julius Roehrs Co. garden, which was awarded an additional gold medal by the Garden Club of America



Entrance to First Floor of Our Gallery

P. JACKSON HIGGS IMPORTANT

Mr. Higgs announces the placing on sale of many examples from two important and historic houses of England.

There are no less than eighteen Panelled Rooms from one house including superb Mantels and Furniture of the period.

Also included are all the Garden Ornaments, Fountains, Lead Figures and Marble Statuary, very important Paintings and rare Chinese Porcelains.

A list of the objects will be forwarded on request.

11 East 54th St.

New York City



ROOKWOOD POTTERY, TILES & SCULPTURE

give distinction to the
house and garden.

THE ROOKWOOD POTTERY COMPANY
Rookwood Place, Cincinnati, Ohio

TODHUNTER®

Wood and Marble Mantels
Fireplace Equipment



QUAINT HAND WROUGHT METAL WORK

For the Country House

LANTERNS, WEATHER VANES, FOOT SCRAPERS, KNOCKERS,
WALL LIGHTS, BELL PULLS, COLONIAL AND ENGLISH HARDWARE

ARTHUR TODHUNTER, 414 MADISON AVE., NEW YORK



Danersk Decorative Furniture

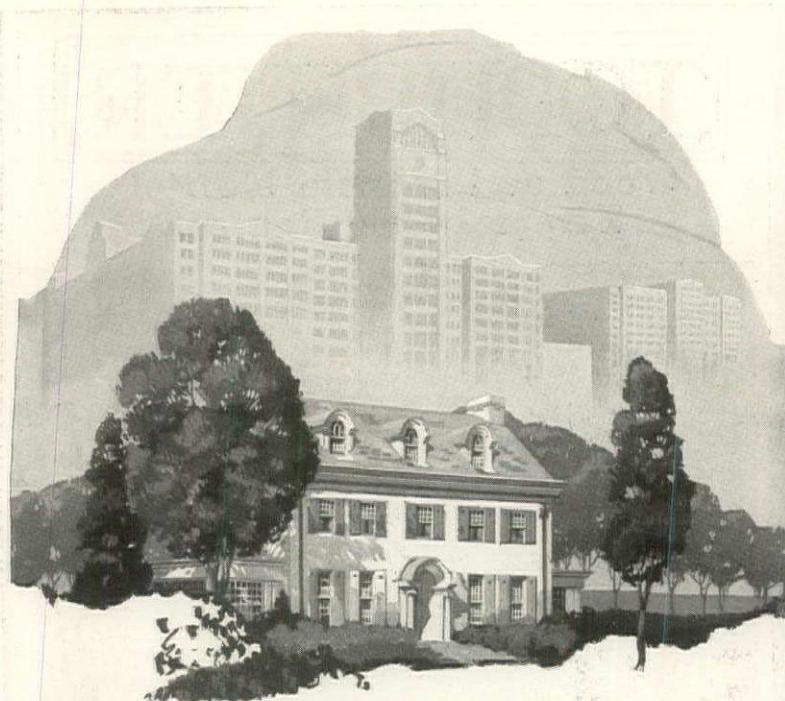
IN Danersk Furniture you have a flexible medium, an opportunity for self-expression in the furnishing of your home. You may select and assemble individual pieces in the spirit of a collector and view the result as an achievement that worthily reflects your cherished ideas of fitness and beauty.

For example, the Spanish Group in old ivory and blue may appeal to you. This group was made with full appreciation of beauty in color and integrity in construction. If you are given the opportunity of choosing just the pieces you want for a given room and can have them finished in some delightful scheme that is just what your home needs, does this not mean more to you than mere furniture? Perhaps the reason why the most prominent decorators are constant users of Danersk Furniture is because such variety and completeness of individuality are obtainable in it. Decorators and their clients are always welcome.

Send for Early American Brochure C-6

ERSKINE-DANFORTH CORPORATION

2 West 47th Street, New York.
315 No. Michigan Ave., Chicago. 645 So. Olive St., Los Angeles.



The House You Will Call Home



SEND FOR THIS BOOKLET

It contains instructive information on pipe costs and the best installation methods. Also literature on Reading Cut Nails, which hold and prevent squeaking floors.

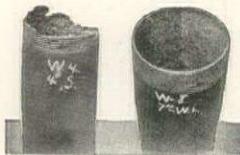
EVERY element in it from cellar to roof must live long in order to serve economically. Take the piping system for example—how important it is that the best pipe should be used. How important it is that Reading Genuine Wrought Iron Pipe should be installed throughout.

Reading Wrought Iron Pipe, having the ability to resist corrosion, lives on an average two to three times longer than the best steel pipe. The use of Reading eliminates those frequent tear-up-the-house variety of replacements which are costly and extremely disturbing.

Many huge structures, including the Sears Roebuck Building in Philadelphia, are installed throughout with Reading Wrought Iron Pipe. Materials used in such buildings are bought with extreme care and almost exact knowledge as to the ultimate cost. The same practice should hold true when building your home.

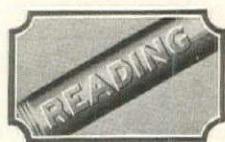
Whatever your building operations may be, Reading Wrought Iron Pipe will best suit your needs. A talk with your architect will convince you of its low ultimate cost.

Write for the booklet, "The Ultimate Cost." It covers many interesting points on pipe installations and costs.



STEEL IRON

The above are actual unretouched photographs of vent pipes on Wanamaker's Store, Philadelphia. Both these pipes were installed in 1907. Under like conditions Reading Genuine Wrought Iron Pipe far outlived the steel pipe. Note conditions of both pipes.



"Reading" on every length

READING IRON COMPANY
READING, PENNA.

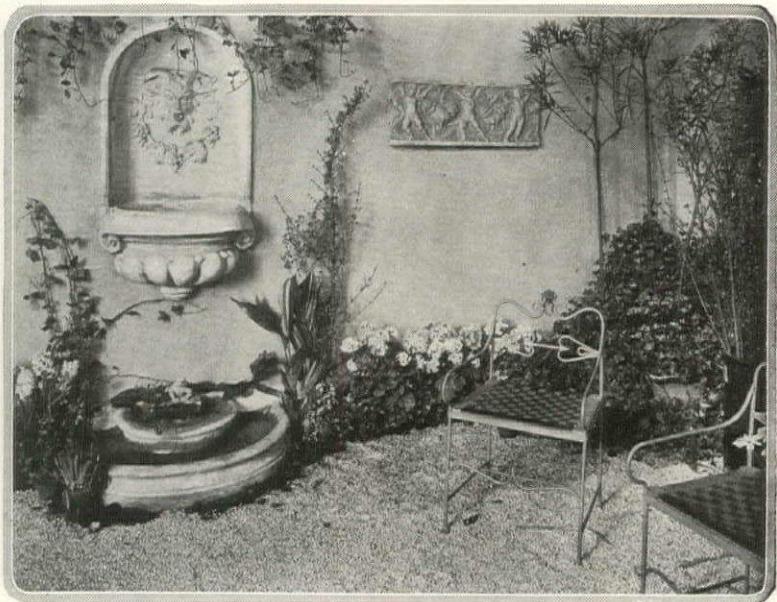
BOSTON BALTIMORE CHICAGO
NEW YORK PITTSBURGH FORT WORTH
PHILADELPHIA CINCINNATI LOS ANGELES

World's largest makers of Genuine Wrought Iron Pipe

READING WROUGHT IRON PIPE

Prominent Features of the 1922 International Flower Show in New York City

(Continued on page 104)



(Above) A corner in the headquarters booth of the City Garden Club of New York. It was designed by Ruth Dean, landscape architect

Cromwell Gardens presented a delightful rose garden which was especially interesting because it was entirely practical to work out under outdoor conditions



A third view of the Roehrs exhibit, where the foreground was filled by a still pool among rocks, reflecting dark evergreens and rhododendrons lighted with the pink of their blossoms



*A Reading Lamp of
Refinement and Beauty*

THIS LAMP, aside from being an object of beauty in itself, serves many illuminating needs which no other lamp of this type performs.

A lamp for reading; for the bridge table; unique in its flexible ability to throw a proper light on paintings, or on ornamental bindings in a bookcase.

Not a period lamp, but adorned with sufficient ornament.

Finished in any combination of colors; silver and blue enamel being especially recommended. Shade of silk or parchment.

We shall be pleased to submit sketches and advice to those genuinely interested in correct lighting fixtures.

Write for our small portfolio showing a few authentic pieces. Prices on request.

No. 31174
Height, 68 inches.

Robert Phillips Company, Inc.
Artisans in all Metals

101 Park Ave. (at 40th Street) New York City



Curtains for Country and Sea Shore

The curtain illustrated above is made of Imported Cord Muslin finished front and bottom with 1 1/2 inch hem and 2 inch cotton Lace Insertion. 36 inches wide—2 1/2 yards long—\$4.75 a pair.

Ruffle Curtains are very popular this season and our assortment is complete.

Marquisette finished with 1 1/2 inch hem and 3 inch gathered ruffle of same.

36 inches wide 2 1/4 yards long—\$2.50 a pair.

Estimates cheerfully given. Catalog No. 62 sent on request.

Furniture Household Linens Draperies
Awnings Curtains Window Shades
Department of Interior Decorations

1 and 3 West 37th Street New York
AT FIFTH AVENUE

Mc Gibbon
Satisfaction

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*The W. Irving
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hand forged
Colonial
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**W. Irving HAND-FORGED
HARDWARE is most dis-
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For Homes, Churches,
Camps or Bungalows of
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Lighting Fixtures, Bells,
Lanterns, Shoe Scrapers,
Toasting Forks, Fireplace
Sets, etc.



The W. Irving Hinge No. 60

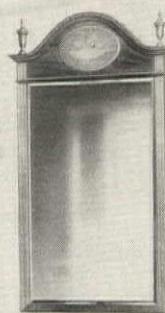
write us or visit our shop

326-328 East 38th St. New York City

Telephone Murray Hill 8536.

Tobey-made Furniture

MUCH of the world's finest furniture is painted furniture. Tobey artists create our furniture design—conceive the idea, work out the details, and execute them. Send for our brochure 4.



The Tobey Furniture Company

Wabash Avenue
CHICAGO

Fifth Avenue
NEW YORK



They Fight Film— They who have pretty teeth

Note how many pretty teeth are seen everywhere today. Millions are using a new method of teeth cleaning. They remove the dingy film. The same results will come to you if you make this ten-day test.

Why teeth are cloudy

Your teeth are coated with a viscous film. It clings to teeth, gets between the teeth and stays. Film absorbs stains, then it often forms the basis of thin, dingy coats. Tartar is based on film.

Old brushing methods do not effectively combat it. So most teeth are discolored more or less.

Thus film destroys tooth beauty. It also causes most tooth troubles. It holds food substance which ferments and forms acid. It holds the acid in contact with the teeth to cause decay.

Germs breed by millions in it. They, with tartar, are the chief cause of pyorrhea, now so alarmingly common.

Now a daily remover

Dental science, after long research, has found two ways to combat film. Authorities have proved their efficiency. Now leading dentists, nearly all the world over, are urging their daily use.

10-Day Tube Free

THE PEPSODENT COMPANY.
Dept. 992, 1104 S. Wabash Ave., Chicago, Ill.

Mail 10-day tube of Pepsodent to

ONLY ONE TUBE TO A FAMILY

A new-type tooth paste has been created to comply with modern requirements. These two film combatants are embodied in it. The name of that tooth paste is Pepsodent.

Its unique effects

Pepsodent, with every use, attacks the film on teeth.

It also multiplies the starch digestant in the saliva. That to digest the starch deposits which may cling to teeth and form acids.

It multiplies the alkalinity of the saliva. That is Nature's neutralizer for the acids which cause decay.

In these three ways it fights the enemies of teeth as nothing else has done.

One week will show

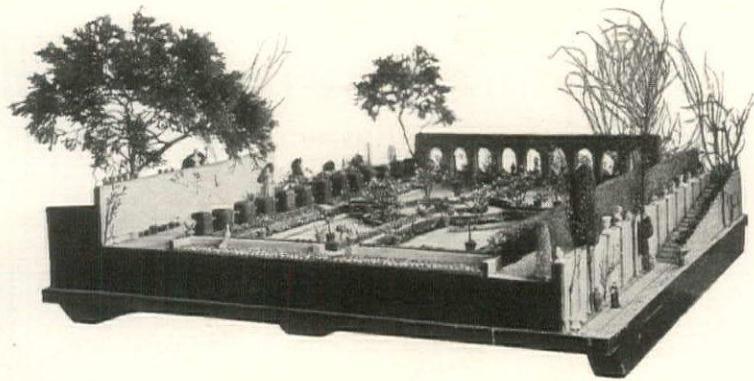
Watch these effects for a few days. Send the coupon for a 10-Day Tube. Note how clean the teeth feel after using. Mark the absence of the viscous film. See how teeth whiten as the film-coats disappear. Enjoy the refreshing after-effects.

Do this to learn what millions know—the way to whiter, cleaner, safer teeth. Cut out the coupon now.

Pepsodent PAT. OFF.
REG. U. S.

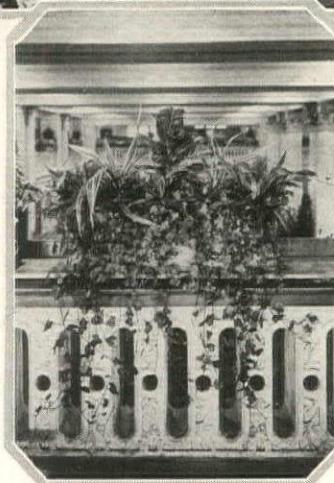
The New-Day Dentifrice

Endorsed by modern authorities and now advised by leading dentists almost the world over. Used by careful people of some forty races. All druggists supply the large tubes.

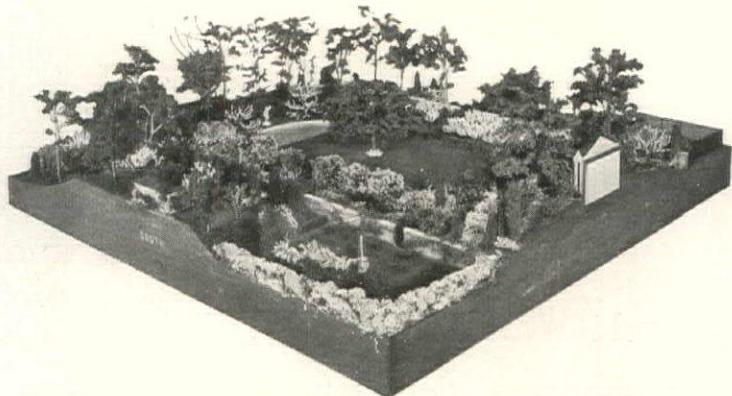


First prize in the model garden competition was awarded to Mrs. Charles Willing, Chestnut Hill, Philadelphia

Prominent Features of the 1922 International Flower Show in New York City



(Above) Mrs. Albert R. Ledoux' spring flowering window box won first prize in Class B



Another prize-winner in the window box competition was made up entirely of foliage plants

The miniature garden contest brought out some excellent entries. This second prize winner was only about 3' square.



**For the Fireplace
in Your New Home**

With this beautiful gas fire you can save several hundred dollars on each fireplace because it does away with the expensive large flue and ash pit.

You can install a Radiantfire for the price of ordinary fireplace equipment and have double the heat at less cost. See one at your gas company or your local dealers or write for booklet.

GENERAL GAS LIGHT COMPANY : New York Kalamazoo San Francisco



No. 112
Colonial Design
For 24" to 36" openings

The HUMPHREY
Radiantfire
TRADE MARK REG. U.S. PAT. OFF.

**ICE CREAM
without cranking!**

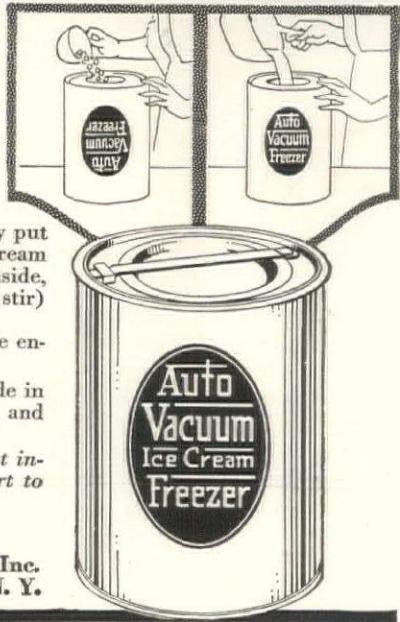
In the Auto Vacuum,
ice cream literally
makes itself.

THIS freezer has no crank! Simply put ice-and-salt in at one end; the cream mixture at the other. Set the freezer aside, and leave it alone (with an occasional stir) — and the ice cream makes itself! It is a neat, all-metal container, white enameled, as light as aluminum ware.

SMOOTH ice cream can now be made in less than an hour with no labor, and with much less ice than before. Pure, home-made ice cream is a treat indeed! It's a pleasure now from start to finish!

Write for interesting booklet "H"—
Desserts That Make Themselves.

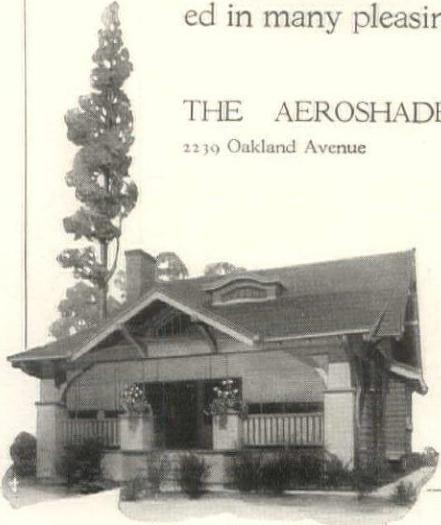
AUTO VACUUM FREEZER CO., Inc.
220 W. 42nd St. New York, N. Y.



AEROLUX
NO-WHIP REG. U. S. PAT. OFF.
VENTILATING
PORCH SHADES

USE your porch more this summer. Aerolux Porch Shades will keep out the sun's glare, but let in plenty of fresh air from top to bottom. Easily hung, substantially made, finished in many pleasing colors.

THE AEROSHADE COMPANY
2239 Oakland Avenue Waukesha, Wisconsin



"Book of Porches"

Write for the "Book of Porches" suggesting ways to increase porch use and beauty.

*Eat with Your Eyes
Acquire this Sixth Sense by Using
The Refined *American* Paper Doilies*

In
Summer Homes
Summer Porches
Lawn Parties
Picnic Lunches
Buffet Suppers

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Suppers
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Under
All Moist Foods
where the use of
real linens offends
good taste.

Also Under
Fruits, Soups
Rolls, Ices
Meats, Cakes
Candy and
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Appetizing Daintiness Without Labor

The American Paper Doily — a Delicate Illusion of Lace and Linen

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American Lace Paper Co. Name _____
Milwaukee, Wis.
Please send me your special
two gross package — 4 patterns
in individual gift boxes for the
enclosed \$1.00 bill.
Address _____



The Insignia of the World's largest maker of All-Clay Plumbing Fixtures



QUIET SI-WEL-CLO

Price as shown
\$108.35
Or with Mahogany Seat
\$99.60
F.O.B. Trenton

TEPECO Water Closets FOR EVERY PLACE AND PURSE

A NOISY closet in the modern home is a sign of indifference to the feelings of guests and family. You can keep closet noise out of your house by keeping out the kind of a closet that makes a noise.

The Quiet Si-wel-clo closet incorporates all the good mechanical features a water closet should have and adds that of extraordinarily quiet operation. It is the leader of a group of water closets which The Trenton Potteries Company has developed to meet the needs of every building from the big hotel to the modest bungalow.

We, of course, consider the Silent Si-wel-clo the most desirable. For those who cannot afford it, we make other good closets. Into our "Welling," "Merit" and "Saxon" we have merged as many of the excellencies of the Silent Closet as possible. Each in its class and at its price is the best the market affords. Each is equipped with a tank of glistening white china, with surface unaffected by stain, acid or soil, and trouble-proof working parts.

We have priced these four closet outfits fairly, f.o.b. Trenton, and are shipping them completely crated to the plumbing contractor. We know it will pay you to insist upon your plumber furnishing them.

Our new booklets tell how to distinguish between the different types and why some are better than others. Send for Edition H



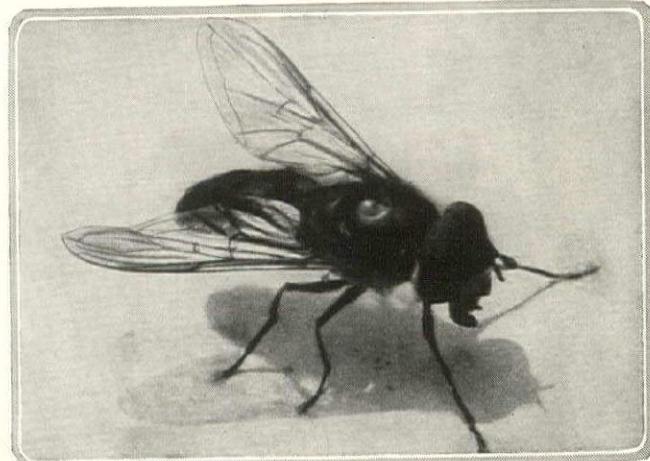
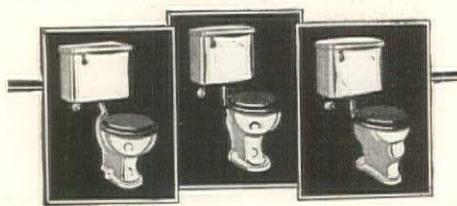
THE TRENTON POTTERIES COMPANY TRENTON, NEW JERSEY, U.S.A.

BOSTON

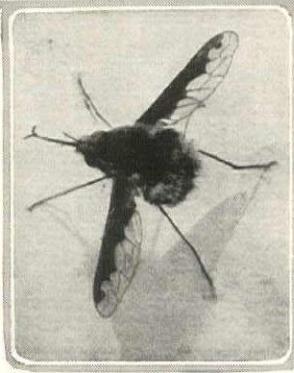
NEW YORK

World's largest makers of All-Clay Plumbing Fixtures

SAN FRANCISCO



The flower flies are those swift darting little fellows that have a way of poising motionless in mid-air for seconds at a time



Mimicry is apparent in some species of flies. Certain kinds resemble bees, others look like wasps, and still others suggest bumble-bees

The RELATION of FLIES to FLOWERS

ALL flies, generally considered, are a pest. But this superficial opinion is far from the truth, for if their life-history is somewhat closely observed, it must be revised in their favor. Some of the flies may be considered as health police which, wherever a vegetable or animal body is going over to decay, will soon come to remove it. Others are vicious blood-sucking fellows. And, between these two extremes, are found the honey or flower flies, dainty and beautiful insects which have adapted themselves to visiting flowers.

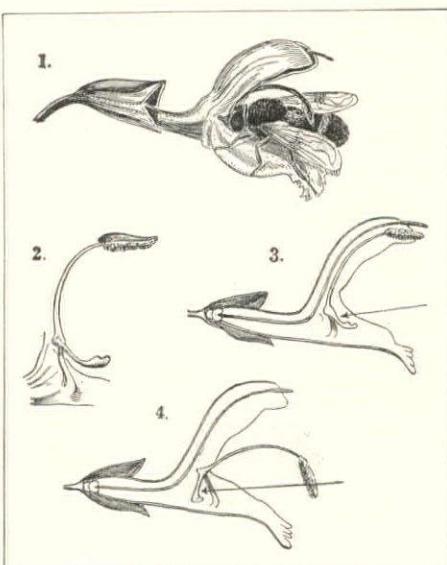
The group of flies is not so very old. The carboniferous period with its flowerless plants could not offer them sustenance. The remains of the first numerous species belonged to the families of *Bibionidae* (March flies), *Muscidae* (house flies and their allies), *Syrphidae* (flower flies), *Oestridae* (gad flies and

bot flies), *Empidæ* (dance flies), *Asilidae* (robber flies), *Culicidae* (mosquito), *Cecidomyidae* (midges), etc. So one can say that the development of the flowering plants went hand in hand with the development of the flies. Even today the fly and the flower are closely related.

A number of families are specially organized for pollination, while others, lacking this specialization, are still sufficiently numerous to be important in the fertilization of the flower. In the class of *Brachycera* there are many genera which do this work, as they are just as important as many butterflies. The pollen is usually carried by the hairs of the body and is so transmitted from flower to flower.

The flower flies, thick-headed flies (*Conopidae*), bee flies, and dance flies are the most important insects in this

(Continued on page 108)



Pollen gathering by a fly. Figures 2, 3 and 4 show stages in the bending down of the anther to touch the fly's back as he presses into the flower. The pollen thus deposited is transported to the pistil of a female flower



Ventilator
Cooling
Porch

The Porch Beautiful and Comfortable— Is a Vudor Porch

Whether viewed from the exterior or interior, Vudor Ventilating Shades enhance the appearance of any porch.

—but their greater service lies in their ability to subdue the sun's heat and glare, keeping your porch cool as a mountain top and shady as an arbor.

Why go away this summer when you can enjoy vacation comfort on your porch enclosed with Vudor Shades. Eat, sleep and entertain on your porch—secure from curious eyes.

Vudor Shades are made of wood slats beautifully stained in permanent colors—arranged so that you see passers-by but they cannot see you. Ventilator woven in top—exclusive Vudor feature—assures perfect ventilation. There's nothing quite like them for appearance, utility and comfort. Write for color illustrations, prices and name of local dealer.

Hough Shade Corporation
261 Mills St. Janesville, Wis.

SELF-HANGING

Vudor
VENTILATING
PORCH SHADES

**Self-Hanging
Vudor**
Ventilating
Porch Shades

An Unseen Refinement that Banishes the Garbage Can

IN hundreds of carefully planned homes of more recent construction there are no unsanitary, unsightly waste receptacles to mar the neatness of well-kept grounds. Their place is taken by the Kernerator, a brick incinerator built into the base of the chimney when the house is erected, that disposes of all household waste—wilted flowers, broken crockery, tin cans, garbage.

This material is dropped into the handy hopper door, located on the first floor in the flue, and it falls to the brick incinerator in the basement. At intervals it is lighted and burns itself up without odor. Non-combustibles are dried and sterilized and later dropped into the ashpit. The Kernerator costs nothing to operate since no coal, wood, gas or oil is required for fuel.

Ask your architect about the Kernerator and write for an interesting booklet we have just prepared, showing some of the fine homes in which it is installed.

KERNERATOR CO.
1025 Chestnut St., Milwaukee,
Wis.

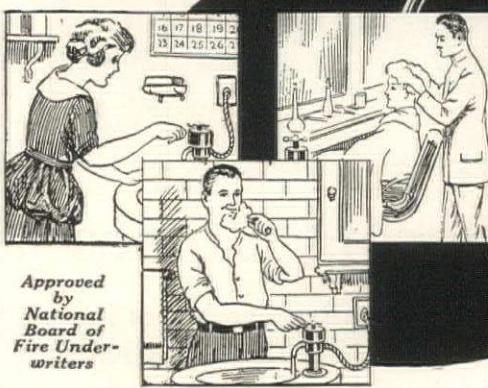
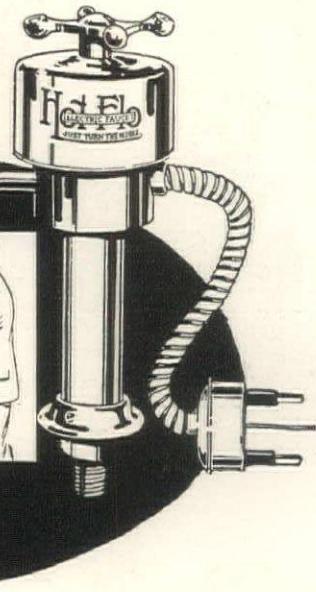
KERNERATOR
Built-in-the-Chimney

Reg. U. S. Patent Office



Drop All Waste Here—Then Forget It

HOT FLO Electric Faucet Heats Water Instantly



Approved
by
National
Board of
Fire Under-
writers

HOT FLO ELECTRIC FAUCET should be in every home,—office,—shop,—doctors' and dentists' offices, in fact wherever hot water is wanted quickly.

Heats water instantaneously only when needed, and just the amount needed. Simply turn the faucet and you get hot or cold water as desired.

Safest, cleanest, most economical and convenient. Easily installed by any mechanic on any bowl or basin substituting for regular faucet. Graceful and finished in nickel.

JUST THE THING FOR THAT BUNGALOW

Price \$25 Complete

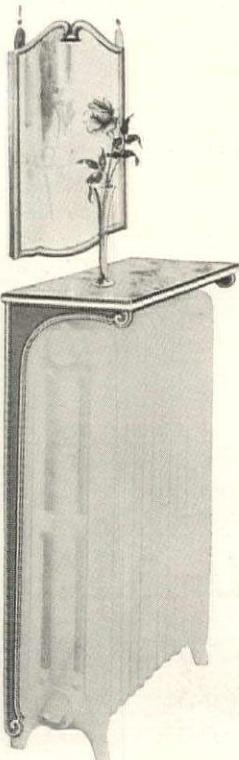
Tear out this ad, write your name plainly and mail to address below. A "HOT FLO" Electric Faucet complete will be sent you at once. Send check with order or pay the postman.

Name Address City

Or write for illustrated folder

HOT FLO ELECTRIC CO., 39th Street & Seventh Ave., New York City

Perfect Protection for Your Walls, Decorations and Draperies!



Here is a means of protecting your wallpaper from those unsightly black smudges and reducing the dirt and dust in your rooms to a minimum. The patented Dust Trap, an exclusive Shapco feature, inconspicuously placed under the top of the shield makes

**Shapco
Radiator
Shields**

a trap for the dust and soot carried by the heated air. The accumulated dust is easily reached and removed with a damp cloth.

Beautifies any Radiator

Shapco Shields are artistic in design, adding grace and beauty to any radiator—highly ornamental as well as useful. They have metal backs and sides, and metal tops support various colored marbles or plate glass over cretonne, damask or brocade.

**Write us for full information
and name of nearest dealer**

Sodemann Heat & Power Co., 2302 Morgan St., St. Louis



Attractive and Enduring Homes

THESE attractive homes in the beautiful Country Club District of Kansas City are built for comfort, beauty and endurance.

Redwood should be specified for

Exterior Construction
including — Colonial siding, clapboards, shingles, door and window frames — gutters, eaves, water tables and mudsills — porch rails, balusters and columns — moulding and lattice. Pickets and fencing. Pergolas and greenhouses.

Interior Finish
Natural, stained or painted. Wood Block Floors.

Farm and Dairy Uses
Such as — Silos, tanks and troughs — Hog feeders and implement sheds — Wood block floors, etc.

Siding, shingles and other parts exposed to soil moisture and the weather are built of Redwood. Every fibre of Redwood is impregnated during the growth of the tree with a natural, odorless preservative which protects it against all forms of rot and decay as well as against the elements and the attacks of boring worms and insects.

Redwood is not expensive. It gives permanent beauty to your home and keeps down repair expense.



If you are planning to build, send for "Redwood Homes" booklet. To architects, engineers and industrial executives we will gladly send our "Construction Digest" and our "Engineering Digest".

Redwood siding being laid.
All clear wood, no knots, splits or other defects.

THE PACIFIC LUMBER CO. of Illinois
2081 McCormick Bldg. 823 No. 40 Rector St. Bldg.
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THE PACIFIC LUMBER CO.
San Francisco Los Angeles

XL **The Pacific Lumber Co.**
Redwood
The Largest Manufacturers and Distributors of California Redwood

"The Western wood for Eastern homes"

The Relation of Flies to Flowers

(Continued from page 106)

respect. The other flies use the gifts of the flower in a superficial manner. The most highly organized are the *Syrphidae*, the distinctive flower flies, little creatures hovering in one and the same spot for seconds on end. This family fertilizes more flowers than all other flies combined. The families just mentioned have proboscis up to 12 mm. in length with which they suck the nectar, while the flower flies also eat pollen. But some of the *Muscidae* and *Stratiomyidae* also drink nectar and eat pollen, and so become important as cross-pollinators.

The hairy bodied bee flies are ideally adapted for holding and transmitting pollen from flower to flower. These dainty insects are admirable fliers, performing gymnastics in the air. They dart and shoot, dance and circle, so fast that the eye can not follow them in their flight. Suddenly they seem to be frozen in mid-air, swerve to one side, hover again as if uncertain of their destination, and away they go.

It is the malodorous flowers such as *Crataegus* (hawthorn), *Arum* (a relative of Jack-in-the-Pulpit), etc., which attract many other insects, especially the flesh flies (*Sarcophagidae*). The odor of the plants is often mistaken to such an extent that they deposit their eggs on such flowers, and when the larvae hatch, they must die of hunger.

Although the larvae of the flies are parasitic, the adults never are, and the food of the larva is entirely different from that of the adult. In the larval stage they have far different mouth-parts and digestive systems, other organs and instincts. The larva of *Eristalis* lives in filth and manure; the adult is a visitor of the flowers and eats pollen. The larvae of *Oestridae* (gad flies and bot flies) and their relatives live in the stomachs of horses and mules; the adults, on the other hand, are dependent upon the flower. The adult females of *Empis* and *Panphomyia* are robbers, which attack other, tinier insects and suck them dry; the males on the contrary lead a peaceful and nectar drinking existence.

Mimicry is also found among the flies, and of all animals those are most often imitated which possess a poisonous barb. The species of *Eristalis* living from and upon the flowers are only too often mistaken for bees. *Volucella bombylans* resembles a bumble bee. The *Syrphidae* and *Conopidae* (flower flies) resemble wasps. This resemblance is most marked, bodily shape, size and markings being only too often identical. That these insects, so protected by this coloration, are not so frequently attacked by their predacious fellows can readily be assumed.

GOVERNMENT BULLETINS THAT HELP

HIGH temperatures and dry weather in June, July and August are unfavorable for good yields of high quality potatoes.

The Nebraska Experiment Station in its Extension notes says: "Those who have grown potatoes under a straw mulch find that they get good yields even in extremely dry years, that the quality is greatly improved and that they can use these potatoes for seed. The reason is that under a straw mulch the soil temperature does not rise rapidly in the day time and drop down at night as is the case in cultivated ground. Then, too, the straw mulch serves to hold the moisture and to check weed growth.

"The seed is planted just as though the patch were cultivated but not over two or three inches deep. When the potatoes have begun to sprout through the ground, the whole patch is covered with from five to six inches of straw, preferably wheat straw. If the ground happens to be crusted over previous to the sprouting of the potatoes, it is advisable to break this crust by cultivating.

"It is best not to try the straw mulch method of growing potatoes near the chicken yard, since chickens are bound to scratch around in this straw and thereby break off the young sprouts, moreover, they are about as fond of the new potatoes as human beings."

THE history of agriculture is a record of man's attempts to cope successfully with the weed problem. When man selected certain plants to grow, he found a multitude of invading plants competing with his crops for moisture, food, sunlight and space. After the preparation of the seed bed, the principal object of cultivation is to prevent the growth of weeds.

There are no magic methods for controlling weeds. Destroying weeds means hard work, but intelligent effort will reduce the amount of labor considerably. The following general methods of weed control may be of considerable assistance.

Prevent weeds from seeding. Young weeds are easy to destroy, old weeds

are difficult to kill and foul the soil with seeds.

Prepare the seed bed well, thus destroying thousands of weed seedlings.

Co-operate with your neighbors in controlling weeds, particularly weeds possessing wind-distributed seeds. Mow roadside, fence row and waste places in mid-June and mid-August.

Practice hand weeding. Frequently a few hours spent in hand weeding will prevent a great deal of future trouble.

Rotate the crops. A cultivated crop that is well tilled will act as a cleansing crop and will destroy many weeds. Land planted continuously to a single crop is certain to become badly infested with weeds.

Utilize smother crops. Clean cultivation followed by a smother crop will control many weeds.

Practice surface cultivation after harvest, thereby inducing the germination of a large number of weed seeds. Many of the resulting seedlings will be killed by frost.

Do not plow under weeds bearing seeds; cut and burn instead.

Maintain soil fertility. Keep the land productive by the addition of organic matter (either animal manure or green manure), by the use of chemical fertilizers and lime where needed, and by draining where necessary. Unless this is done, the weeds are certain to come in. Strong, vigorous crops mean fewer weeds. Give the crops a chance to show what they can do.

Don't sow weed seeds. After the land is comparatively weed free, compost all manure known to contain large numbers of weed seeds (such as city stable manure). Most important of all, sow clean seed.

The Indiana seed law designates eighteen noxious weeds; Buckthorn, bracted plantain, common plantain, Canada thistle, chicory, corn cockle, dodder, wild mustard, horse nettle, ox-eye, daisy, prickly lettuce, quack grass, red sorrel, white top, wild carrot, wild garlic, and yellow trefoil.

They are illustrated and described with approved methods of eradication and control in Circular No. 106, of the (Continued on page 112)

*From Old Virginia*

famous for its fine old colonial mansions comes

Flint-Arrow Blue Slate

THE LATEST AND MOST ARTISTIC SURFACING FOR COMPOSITION SHINGLES.

For generations this slate has been the favorite roofing on many southern homes. The soft, charming effect of these old slate roofs can now be obtained everywhere by using

Flint-Arrow Blue Slate ON YOUR SHINGLES.

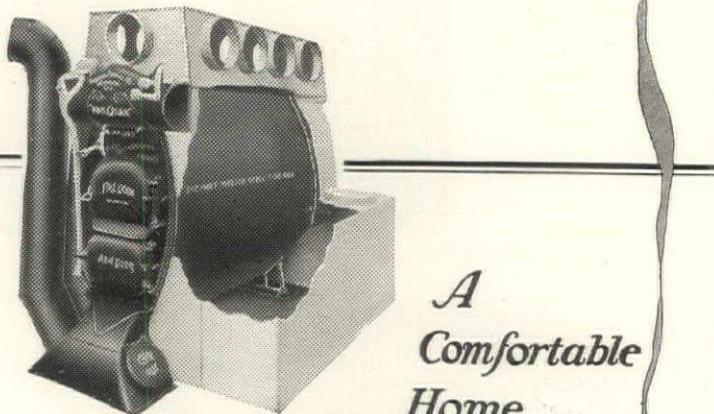
A quiet silver-blue color tone—everlasting and unchanging—Nature's own shade as slate is mined from earth

FLINT-ARROW BLUE SLATE SHINGLES LEND DIGNITY AND OLD TIME CHARM TO YOUR HOME.

Many manufacturers supply shingles of Flint-Arrow Blue Slate

Ask your dealer or write us for samples.

BLUE RIDGE SLATE CORPORATION
ESMONT, VIRGINIA



A Comfortable Home

PROPER Heating and Ventilating are important considerations in every home. It is criminal carelessness to ignore them, for pure, fresh air is vitally essential to life and health.

Thousands of homes are comfortably heated and amply supplied with an abundance of pure, fresh air through the efficient operation of

FARQUAR SANITARY HEATING SYSTEM

Health-destroying heat is both illusionary and devitalizing. Scorched air is unfit for breathing, and stale air, heated and re-heated, is positively injurious.

The temperature of a FarQuar Heated Home is distinctively refreshing. As one FarQuar owner said,—“My FarQuar System produces a coolness that is comfortable.”

An interesting booklet, “The Science of House Heating”—discloses some remarkably vital facts about healthful house heating and ventilating. A copy mailed free on request.

THE FARQUHAR FURNACE CO.

706 FarQuar Building

Wilmington, Ohio



grate area gives slow combustion and fuel efficiency.

Vent and Radiate System. Provides a generous supply of warm, dry air instead of a hot blast of superheated air.

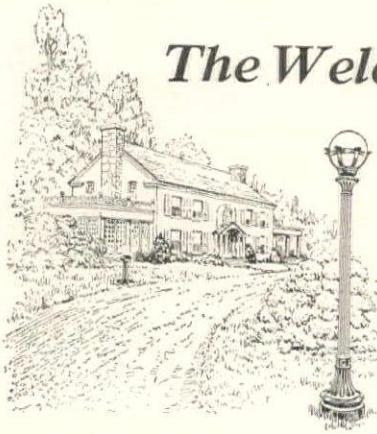
Automatic Regulator actuated by firebox, completely controls fire, insuring uniform temperature regardless

of weather, with surprisingly low fuel consumption.

copy mailed free on request.



The Welcoming Glow —that Safeguards and Directs



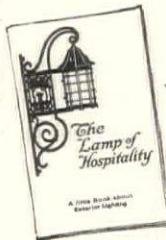
A well lighted driveway is appreciated by your friends and shunned by mischief-makers and evildoers. And the artistic charm of Smyser-Royer Exterior Lighting Fixtures gives your grounds an added beauty by night—and day.

The Smyser-Royer Line Meets Every Exterior Lighting Need

Let us put our experience at your disposal in selecting the fixtures which will best harmonize with your house and its surroundings. Our illustrated booklet—“The Lamp of Hospitality”—shows a selection of lanterns and lamp posts for estates, country homes, town houses, community lighting and public buildings. The coupon below will bring you a free copy.

SMYSER-ROYER COMPANY

Main Office and Works: York, Pa.
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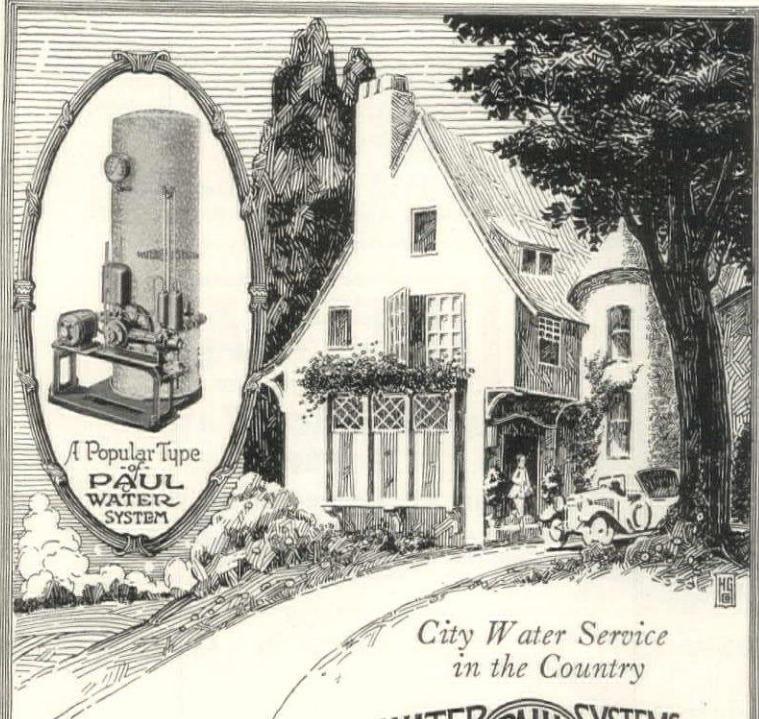


SEND US THIS REQUEST BLANK

for “The Lamp of Hospitality,” a little book containing some interesting information on Exterior Lighting. Every architect and contractor should have our Catalog “F.”

Name.....

Address.....



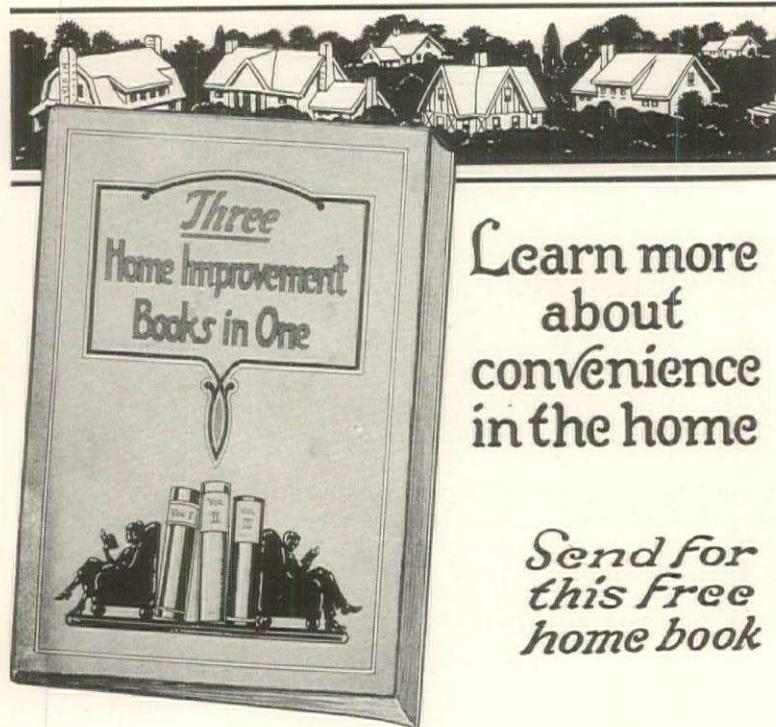
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WATER PAUL SYSTEMS

MANY country homes far beyond the city limits enjoy perfect water service. The Paul System pumps water automatically as it is needed to any part of the property and keeps it under pressure for instant use. The mechanism is simple, compact and quiet.

Write us for interesting descriptive matter. Our nearest branch will be pleased to explain the system fully.

FORT WAYNE ENGINEERING & MFG. CO.
—MAIN OFFICE AND FACTORY—
No. 1724 NORTH HARRISON ST., FORT WAYNE, INDIANA



Learn more about convenience in the home

Send for this free home book



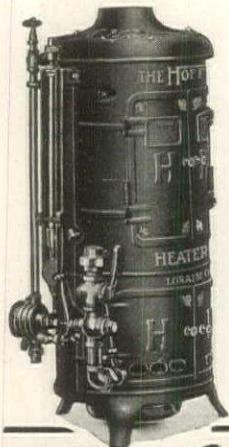
INSTANTANEOUS Hot Water, provided by a Hoffman Automatic Heater, saved an average of seven hours time each week for Mrs. Marion Stanley Adams, in addition to supplying greater comfort than her home had previously known.

Read the interesting story by Mrs. Adams and also the instructive article by Robert J. Kirk in the handsome new book offered in the coupon below. The experience of these two in no way differs from that which thousands of Hoffman Water Heater owners enjoy every day.

The Hoffman is "the heater with 77 less parts" which supplies all the hot water you want at the exact moment you want it, by merely turning the faucet. No waiting. No waste.

Get your copy of this book at once. It contains full information about instantaneous hot water and Hoffman Heaters. Send coupon today.

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Instantaneous
Automatic Water
Heaters
For All Homes Using Gas

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THE HOFFMAN HEATER COMPANY
1675 Oberlin Avenue, Lorain, Ohio

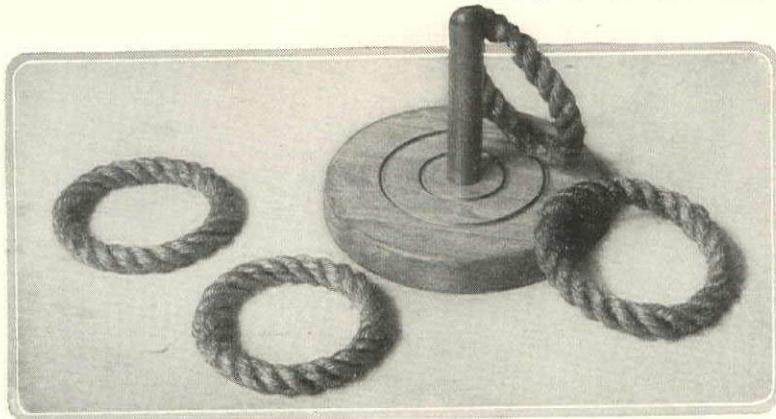
Please send me your new "Three Books in One," including full information about Hoffman Water Heaters.

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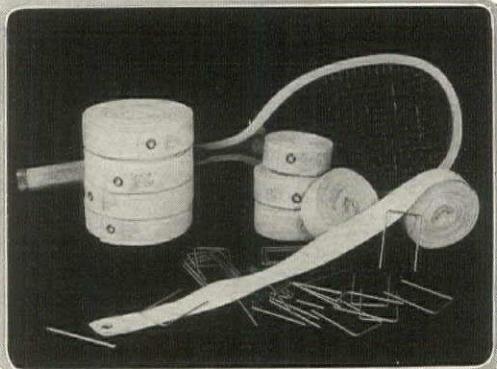
The set of rope ring toss above may be purchased for \$3.50. The four rings have a wire insert making them strong and rigid. Extra rings \$.50 each

MORE GAMES FOR THE GARDEN

Which may be purchased through the House & Garden Shopping Service
19 West 44th Street, New York City.



In Bull Board one tries to throw the rubber discs on the numbers and not on the bull. Board 3' x 4' \$20



A set of double court marking tapes with nails, staples and directions for putting down is \$7. Net \$4. Racquets \$2.25 to \$14



An unusually beautiful set of croquet of imported English dogwood, has metal bound mallets, balls of solid color and twisted, white enameled candlestick wickets, with painted sockets and caps. The box is fitted with a special compartment for each part of the set. A four ball set is \$25, eight ball \$38



ENGLISH
CASEMENTS
and Windows
for banks, of-
fices, schools,
hospitals, etc.

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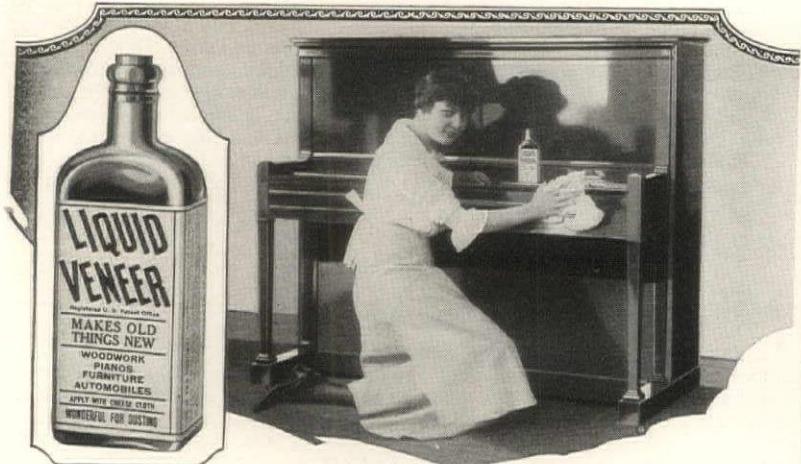
Steel Casements

for artistic residences and
other substantial buildings

Made in varied designs
to meet all conditions

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Manufacturers Detroit Michigan



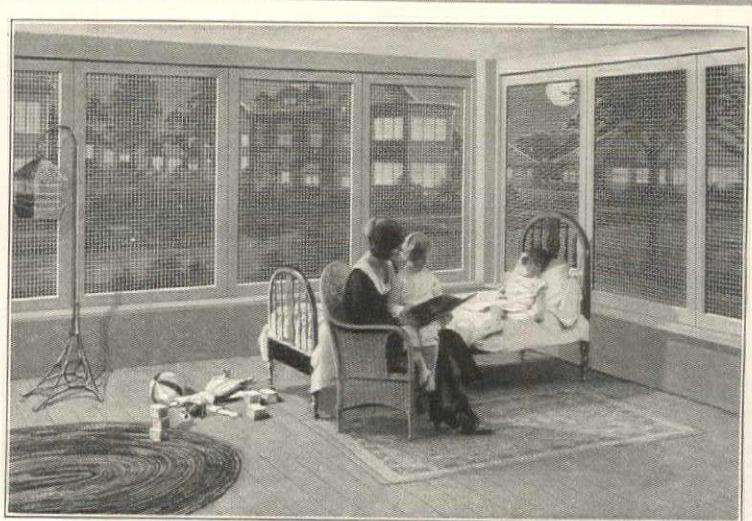
The Story of The Cracked Piano

"I had a beautiful mahogany upright piano and by reason of shutting our house up for several months—with poor climatic conditions—I found that the surface of the piano had become dull and covered with tiny cracks. I tried several polishes but they did nothing more than make the condition seem more noticeable. Then I tried

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with really astonishing results. True, the cracks did not disappear but there was a rapid improvement in the appearance of the piano. The cracks became barely noticeable and the finish seemed to take on new life and lustre. "I use Liquid Veneer in my daily dusting on all my fine furniture." The use of Liquid Veneer is a distinct economy. It saves expensive refinishing.

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THE "VISION" OF PEARL WIRE CLOTH

ALTHOUGH Beauty and Economy are the foremost of PEARL Wire Cloth features, another of great importance is Vision.

Due to its smooth metallic finish and even mesh, coupled with its color, which turns to an "invisible" gray shortly after installed, PEARL offers practically no obstruction to the vision, and the occupants of a PEARL Screened Porch enjoy the beauty of the outdoor view.

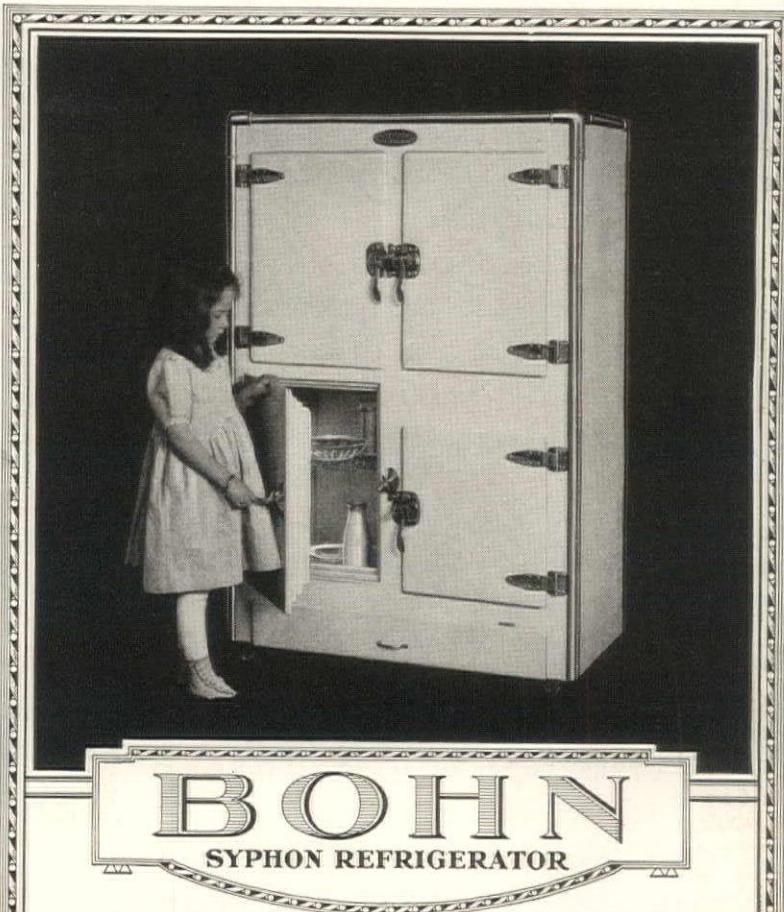
This feature does not hold with painted cloth. PEARL requires no painting. It insures against repairs, continued painting and the petty annoyances that less durable wire cloth gives.

Buy only the Genuine, which has two copper wires in the selvage and our red tag on every roll.

Call on our local dealer or write direct for samples and literature if you're interested in screen material. Address Dept. "K"

The Gilbert & Bennet Mfg. Co.
New York Georgetown, Conn. Chicago Kansas City

G & B Pearl is made in two weights—regular and extra heavy. The best hardware dealer in your city sells "PEARL"



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SYPHON REFRIGERATOR

The unusual efficiency and economy in preserving food in a Bohn SYPHON REFRIGERATOR have added a feeling of satisfaction that has expressed itself in the form of a "pride of ownership" that is difficult for those who do not own one to understand.

Adopted by the Pullman Company and dining car service of all American Railroads.

New York Exhibit Bohn REFRIGERATOR CO. Chicago Exhibit
53 West 42nd St. SAINT PAUL, MINNESOTA 68 E. Washington St.

Government Bulletins that Help

(Continued from page 108)

Purdue, Indiana Agricultural Experiment Station, entitled: Nineteen Noxious Weeds of Indiana, of which this article is a digest.

A VERY useful series of spray calenders for New Jersey and vicinity have just been issued and may be obtained free by writing to the New Jersey Agricultural Experiment Station, New Brunswick, N. J.

Circular 131—Potato Scab and Methods for its Control.

Circular 132—Spray Calender for Apples and Quinces.

Circular 133—Spray Calender for Peaches.

Circular 134—Spray Calender for Pears.

Circular 135—Spray Calender for Cherries.

Circular 136—Spray Calender for Grapes.

Circular 138—Control of the Cabbage Maggot.

CALIFORNIA, with its variety of suitable climates, is so well adapted to the culture of grapes that it is possible to grow in the open, in some locality, all of the varieties used in the vineyards and in the hothouse grapevines of the world.

The home vineyard should be so planned that it will furnish the table with fresh fruit of various colors, shapes and flavors during the whole grape season, from July to November. It should also provide the family with raisins, grape syrup, grape juice, jellies, marmalades, and vinegar.

The Agricultural Experiment Station of California has just issued Circular 231, a very complete treatise on the home vineyard.

In Table 1 it gives a list of the choicest table grapes, a few raisin grapes and a number of varieties suitable for grape juice and other grape products. This list includes: name of variety, size, color, period of ripening, vigor and climate.

In Table 3 are typical examples of a complete group for cool regions and

for warm regions.

Table 4 names varieties for special purposes: seedless grapes, grapes for juice, for jelly, for preserving, grapes for arbors, grapes with muscat flavor, Eastern grapes and raisin grapes.

Other subjects covered are: propagation of vines, preparation of the ground and planting, supports, arbors, treatment of young vines in the first, second and third years, treatment of full bearing vines, pruning, cultivation, irrigation, diseases and pests.

It is included with a list of general publications and books on grape growing.

The Agricultural College of the University of California offers a correspondence course in Grape-Growing, which may be taken for a small fee.

THE Nebraska Agricultural College Extension Service recommends that all seed potatoes be treated before they are cut for planting, for the purpose of controlling several diseases, most especially scab and another disease called rhizoctonia. This latter disease does considerable damage to the plants, frequently killing them, thereby injuring the stand in the field.

The method recommended is to dissolve 4 ounces of corrosive sublimate in one gallon of hot water. Then add this solution to 29 gallons of water, making a total of 30 gallons. At all times use non-metal vessels for this solution, as it does damage to metal and weakens the solution. The potatoes should be soaked in this solution before they are cut for from 1 to 1½ hours the first time the solution is used.

The same solution can be used for four lots of potatoes provided the length of time for treating each lot is increased 10 minutes. After four lots have been treated in one batch of solution it should be discarded. This solution should be handled carefully at all times, as it is a deadly internal poison. Externally there is no danger from it in so far as the handling of the potatoes in the solution is concerned.

ALFRED I. WILDER.

YOUR DOG AND YOU

THE great success of the important dog shows of the past winter, both in the quality and number of the dogs shown and in the great interest in these events taken by the general public, proves beyond question that dog-breeding has recovered from the set-back occasioned by the war and has taken its place again as one of the important phases of country life today. The time has passed when anyone is satisfied to own just a dog—it seems to be the ambition of everyone now to own the best he can afford in his favorite breed, and then to show him to prove how good he is.

A great many visitors at dog shows and a great many novice exhibitors are puzzled by the system of classifying and judging the dogs and a brief summary of the system followed may be of assistance.

All dogs are divided into the recognized breeds, and each breed again into sexes—dogs and bitches. In each sex there are five regular classes—the puppy class, for dogs from six to twelve months; novice, for dogs which have never won a first; American-bred, for all dogs born in the United States except Champions; Limit, for dogs never having won six firsts in this class, Champions barred; Open, for champions and all others. In each of these classes four ribbons are awarded, blue for first, red for second, yellow for third and white for reserve—meaning

that the fourth dog is held in reserve in case through any infraction of the rules, any of the higher awards are cancelled, the dogs are all moved up one point, bringing the reserve dog to third. This however, seldom happens and the reserve dog can really be considered the fourth.

The winners of these five classes are then called into the ring and from them the judge picks the best of the sex and awards the winner's rosette of purple, giving a purple and white ribbon to the second best or reserve winners for the same reason that a reserve is awarded in the regular classes. The dog and bitch winning the winner's rosette receive points towards a championship, the number of points depending upon the number of dogs of the breed competing at that particular show. Any dog or bitch, which receives fifteen points on winner's ratings at different shows under at least three different judges and where at least two of the credits shall be for three points or more becomes a champion. There are also other classes such as brace-team, junior dogs and others, but these are not among the regular classes.

In addition to these class awards the judge gives green ribbons to winners of the various specials, which are offered by specialty clubs and individuals for various reasons, such as best of the breed, best bred by exhibitor, etc.

NANA LOUISE MOORE.



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from mine to consumer
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The High Cost Of Tearing Out Corroded Piping

Water pipe that corrodes must be torn out at the end of a few years. Walls must be opened and floors and pavements ripped up to reach concealed lines and service pipes.

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ANACONDA brass pipe resists corrosion. It is made by a process developed as a result of fifty years' experience.

Every piece of ANACONDA brass pipe is guaranteed against splitting.

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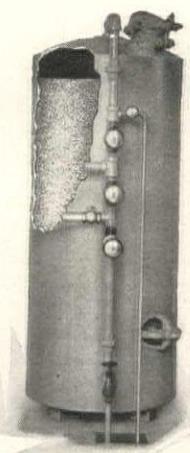
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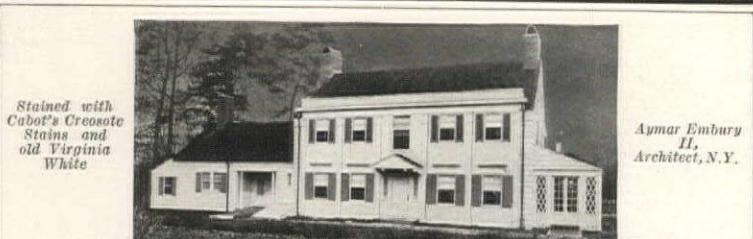
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Automatic CASEMENT STAY

holds window so securely that even in a storm it will not slam. Can be attached concealed or exposed, at right or left, top or bottom. Sold by hardware dealers everywhere.

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Safely from Ridge to Ground



The mealy rose gall is formed directly on the leaves. One of the Hymenoptera insects causes it

PLANT GALLS AND THEIR FORMATION

THOSE peculiar protuberances and growths on leaves, twigs and stems of grasses and shrubs, trees and bushes, in field and woods, are not a part of the normal plants. They are made by the introduction of an egg of a small insect into the tissues of the plant, and the resultant swellings are called galls. Those creatures producing such abnormalities belong to the group of mites, bugs, butterflies, flies, saw-flies and gall wasps.

Now, there are two types of galls, the organological and the histological. The former are growths of the organs, the latter are deformations of the tissues. It is the latter class of peculiar swellings which are most generally considered as galls, but from a theoretical standpoint, the former are much more interesting after one has observed how different such deformed organs are from the natural ones. All the numerous forms and shapes of these abnormalities in both structure and organ show that the gall producing insects possess a certain substance or irritant with which they are capable of producing them. The shapes of such galls are most varied, and the histological galls produce forms resembling burrs, balls, knots, tubercles, warts, clubs, flakes, etc.

When a gall fly or any other gall producing insect lays its egg in plant tissues, a tiny drop of fluid is excreted with it. If no egg is laid, but the fluid discharged, a gall is produced. As a general rule a chemical stimulus for the development of the excrescence is exerted through the development of the egg, and it is undoubtedly the waste products excreted through the development

of the embryo which produce such actions. The form and shape of the gall is various, and it varies with the plant upon which it was produced and the animal creating it. *Cecidomyia artemisia* produces two different kinds of galls upon two different kinds of plants, the one formed on *Artemisia campestris* differing decidedly from that formed on *A. scoparia*. The galls of different insects differ upon the same plant, and two related plants react differently to this same stimulus. But the chemics of related species does not seem to be so pronounced in this respect as in those which are not so related. Those cells on the interior of the gall which have been eaten by the larva soon grow again.

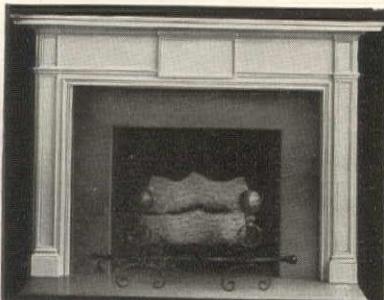
Therefore, after the egg has been deposited, a malignant growth is produced in the plant tissues which sometimes can be mistaken for an organ of the plant. Its tissues, just like those of a healthy plant, are provided with the necessary bundles, and can assimilate, grow and take up a reserve supply of food, all of which is absolutely essential for the well being and existence of the larva.

The form of a gall produced by a given insect upon a given plant is always the same, and from the shape of this gall, the larva inhabiting it can always be definitely determined since each individual gall producing insect is dependent upon one individual, or a group of closely related plants where its eggs pass through the normal stages of development. But some gall insects are known which live alternately upon different host plants and produce distinct

(Continued on page 116)



A curiously formed gall that is quite different from the rest is found on the leaves of the wild cherry. These growths are caused by the introduction of an insect's eggs into the tissues of the plant, which swell in consequence



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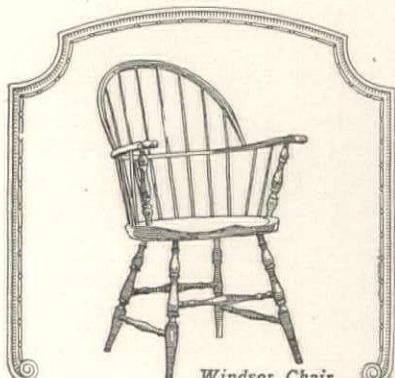
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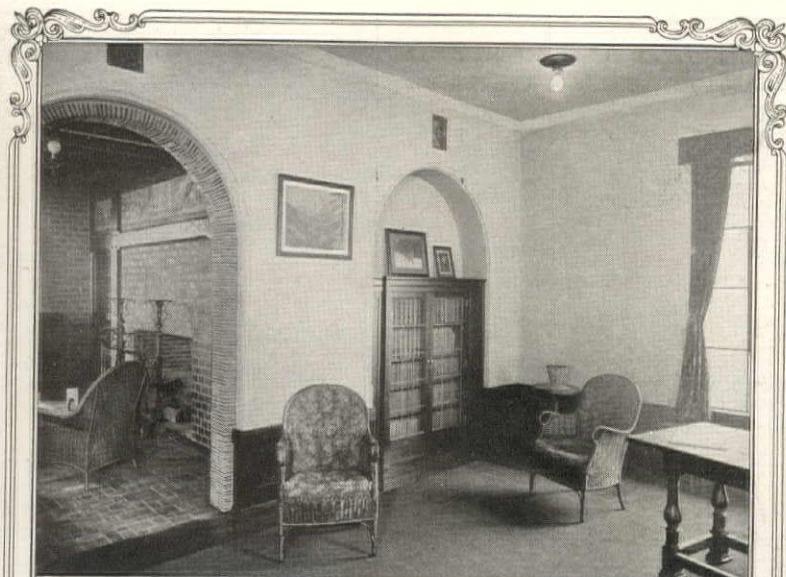
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Easily applied, does not fade, and can be washed with soap and water, as often as desired, without the slightest injury.

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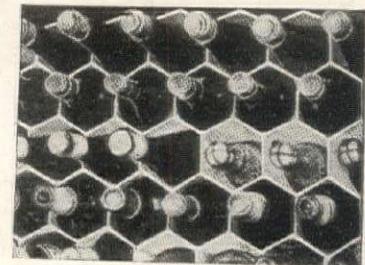
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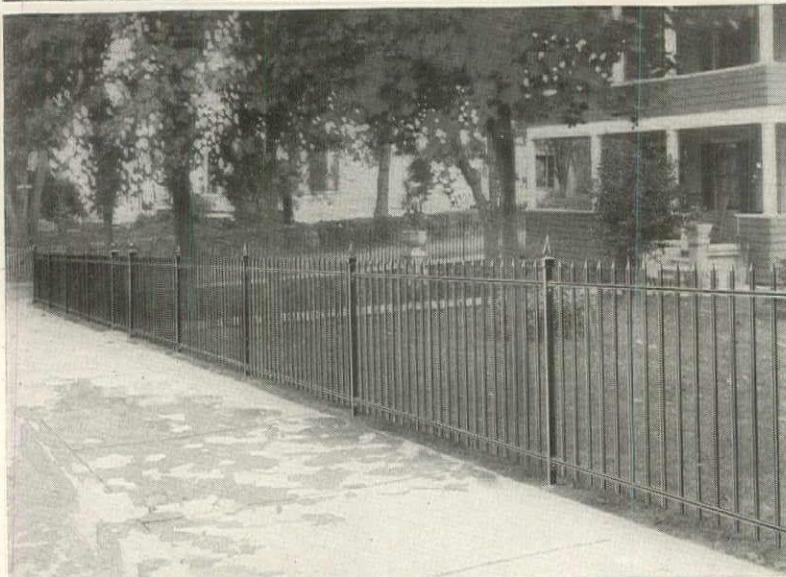
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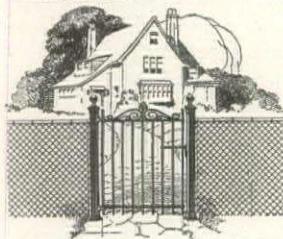
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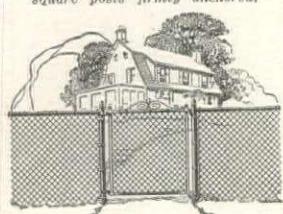
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2401-G



FIRM—BECAUSE THEY ARE ANCHORED



An entirely different type of gall is shown here. It is a comfort to know that these extreme deformities are the exception rather than the rule in the well-cared for garden

Plant Galls and Their Formation

(Continued from page 114)

tive and characteristic galls in each case.

If the galls are closely studied, one always finds that the cells of the plants have developed contrary to normal. Sometimes it is an abnormal growth of the tissues, but not invariably so, and invariably the gall is produced where the tissues are young and susceptible to foreign particles which, when acted upon for a considerable time, influence the meristem—the growing part of the lateral cylinder. This pressure exerts such an influence upon the meristem that it is stimulated to an intensive development of new cells. To this must be added the chemical action produced through the excrements of the larva, which demands a development of the gall in a certain definite direction. Just what these substances are is not known with any degree of certainty, but it is believed that it must be an enzyme which causes this enormous change both in the tissues of the meristem and sometimes even in the plasma.

The influence which these galls exert upon a plant are manifold. Usually the excrescence of the cell tissues remains loose and spongy. In other cases a lignification of these same tissues takes place. Here an abnormal production of wood cells takes place where, under normal conditions, no such change occurs. There are no few cases where, through the sting of an insect, organs are formed. In general it cannot be said that the plant is injured by the formation of

galls, but on the other hand, it does not derive any benefit from them.

The simplest galls are the capsule galls which are produced by those animals which are continually on the outer side of the leaf where they also multiply. Through a continual stimulus, a malignant growth is formed which takes the shape of a hollow cell in which the animals are protected. Such galls are usually found on the leaf blade. Some of them rise above the surface of the leaf, and the hollow formed by this growth serves the insect larva for its home. The folded galls also belong here, and these forms are deeply indented and sometimes hollowly curved, the upper side forming a narrow slit and projecting below the under side of the leaf surface. Such homes are usually produced by mites. Wrinkle galls are those which are generally produced on the veins. These are not so very prominent, although the upper side of the leaf is provided with buckles and hornlike projections. Wart galls are more or less distinct projections on the leaf surface, often being provided with curious secondary eminences.

Pith galls are simple galls producing local growths and making their appearances on certain parts of the plant. Here the plant tissues are attacked and the wound so made receives the egg. The cavities thus formed are larval cells, and of these some are one chambered

(Continued on page 118)



The photograph at the left is of a well-known type, the oak tree bullet gall. They sometimes measure an inch in diameter. The right-hand picture is of the blackberry knot gall. It shows the holes where the insects have emerged



Walter Camp's New Way to Keep Fit

Walter Camp, Yale's celebrated football coach, has been teaching men and women everywhere how to keep fit—"on edge"—full of bounding health and youthful vitality—and how to *enjoy* doing it. Walter Camp says that a civilized, indoor man is a "captive animal," just as much as a tiger in a cage. But the *tiger* instinctively knows how to take the kind of exercise he needs to keep fit—he stretches, turns and twists his "trunk muscles"—the very same muscles that tend to become weak and flabby in indoor men and women. With Mr. Camp's permission the "Daily Dozen" exercises have now been set to spirited music on phonograph records. They supply exactly the right movements to put these vitally important "trunk muscles" into the pink of condition, and keep them there. These twelve remarkable exercises, done to music, with a voice on the record calling out the commands, are all you need to keep your whole body in splendid condition—and they take only 10 minutes a day. You will also receive a set of handsome charts, with actual photographs showing exactly the move to make at each command. It is simple as A-B-C.

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See for yourself what Walter Camp's "Daily Dozen" combined with the Health Builder System will do for you—without a dollar of expense. We will send you, *entirely free*, a sample phonograph record carrying two of the special movements, with a voice giving the directions and commands, and specially selected music to exercise to. Also a *free chart* showing positions, with complete directions. Get this free record, put it on a phonograph, and try it. There is no obligation—the record is yours to keep. Just enclose a quarter (or 25 cents in stamps) with the coupon to cover postage, packing, etc. Send coupon—today—now—to Health Builders, Dept. 596, Oyster Bay, New York.

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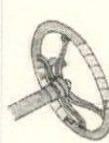
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your fingers
this new way



Tirro protects the fingers from callouses and blisters. Just the correct width to do the job right. Better, by far, than a glove. Keep a spool always in your golf trousers.



Use Tirro, too, for a grip on a tennis racket; to hold torn cloth together; for repairing quickly the things ordinarily discarded. Sticks to anything—and water-proofed. "Wonderful!" you'll say.



Three sizes:
Small, 15c; Medium, 25c;
Large, 50c
At Drug Stores

H. G. 629
Tirro **MAIL THIS**
BAUER & BLACK,
2500 Dearborn St., Chicago
Mail me a strip of Tirro.
Name _____
Address _____
City _____ State _____

FRECKLES

Now Is the Time to Get Rid of These
Complexion Blemishes

There's no longer the slightest need of feeling ashamed of your freckles, as Othine—double strength—is guaranteed to remove these homely spots.

Simply get an ounce of Othine—double strength—from any druggist and apply a little of it night and morning and you should soon see that even the worst freckles have begun to disappear, while the lighter ones have vanished entirely. It is seldom that more than an ounce is needed to completely clear the skin and gain a beautiful clear complexion.

Be sure to ask for the double strength Othine as this is sold under guarantee of money back if it fails to remove freckles.

REDUCE

Easily . . .
Naturally

Three Slices
of Basy Bread a day,
Help reduce your weight
in a natural way.

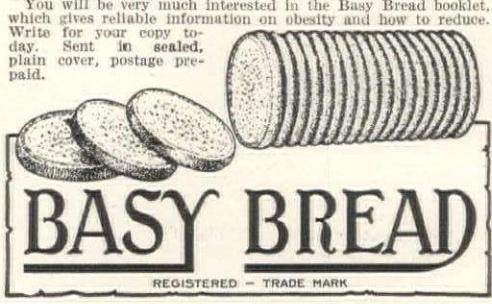
Doctors' Essential Foods Co.,
Orange, N. J.

Gentlemen:

Herewith please find check for a course of Basy Bread for my sister. I have reduced to the desired weight, having lost thirty-two pounds. Your advice as to how to retain my present weight will be appreciated.

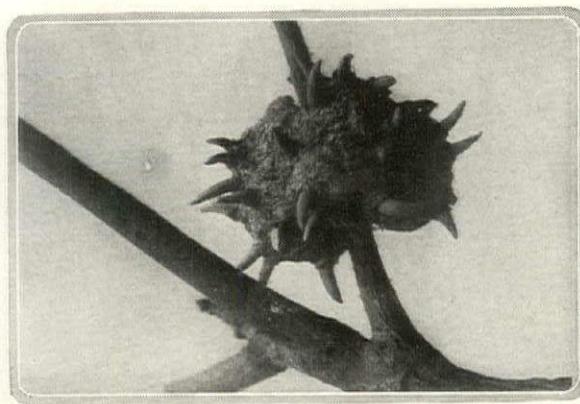
Mrs. B. W. New York

DOCTORS' ESSENTIAL
FOODS CO.
35 Oakwood Ave.
Orange New Jersey



BASY BREAD

REGISTERED TRADE MARK



Another kind of gall that is sometimes found on oak trees bears hornlike projections. Galls contain within themselves the elements necessary to grow as do the unaffected parts of the plant

Plant Galls and Their Formation

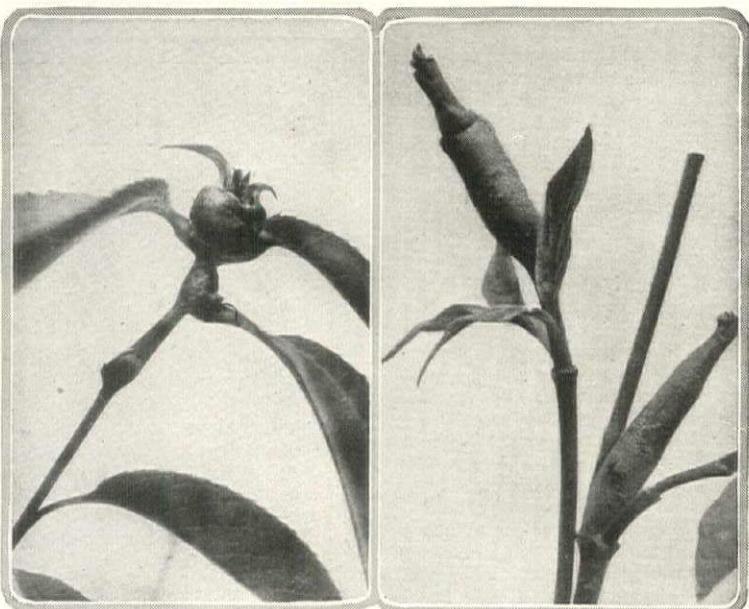
(Continued from page 100)

while others may have a number of them. The gall surfaces show all kinds of types and degrees of ornamentation and it is reasonable to suppose that they protect the larva living within. In many cases, at that particular spot where the insect has wounded the tissues, no swelling takes place, a canal being left open. When it does close, corky tissues are formed. The larva is then completely cut off from the outside world, and pupates within the gall.

Some of the pith galls open by means of a cover, as is the case with *Cecidomyia ceris* found on the Turkish oak. Here the gall forms tiny pointed eminences, the under surface carrying a flat

disk thickly covered with fine hairs, loosens in the fall and falls off. The larva fall to the ground and pupate under the soil. Another gall-fly, *Hormoza reaumuriana*, produces a gall on the leaf of *Tilia europaea*, the European linden or basswood, in which a second gall is found by forming a compartment within the gall. The tip of the outer gall turns yellow in July at the same time that a groove is produced about it. The inner gall is now completely boxed in. The tissues at the bottom of the outer gall begin to grow and swell and soon eject the inner gall with its larva, both falling to the ground.

E. BADE.



Wild cherry bud gall is shown here in three stages of development, the largest at the tip of the twig



Oak fig gall bears no slight resemblance to a cluster of figs. As shown, it forms directly on the branches

An Alluring Reward for Promptness!

Our Special Border Collection

of Gorgeous Darwin and Cottage Tulips
(as pictured above in order from right to left)

per per
100 1000

Clara Butt—
Exquisite
Salmon pink
Darwin ... \$4.00 \$35.00

Picotee—
white cot-
tage petals
edged with
pink 4.50 40.00

Pride of
Haarlem—
Darwin
American
Beauty color 4.50 40.00

Dream—
Charm-
ing lavender
Darwin ... 5.00 45.00

Bronze Queen—Buff
tinged with
gold en
bronze. 5.00 45.00

La Tulip
Noire—
Enormous
size Darwin
of deep vel-
vety purple. 5.00 45.00

Golden Beau-
ty—Glori-
ous golden
yellow Cot-
tage. 4.50 40.00

25 Bulbs at 100 rate;
250 Bulbs at 1000 rate

Very Special
100 bulbs each of 7 vari-
eties above (700 in all)
\$30.00

1000 bulbs each of 7 vari-
eties above (7000 in
all) \$275.00

Special 5% discount if
you send cash with order

YOU CAN have just such an entrancing border as is pictured above, at trifling cost, if you order now! We import your Bulbs especially for you, have them packed for you in Holland, thus saving the handling charges here, reduce to a minimum the freight and import charges, and guarantee you the pick of the biggest and finest Bulbs grown in Holland!

An import order now means a big saving. Earn it—order now. To enable us to make this generous offer we must have your order before July 1st, no later!

Bring the Glories of Tulip-time To Your Own Garden! Right now, while you are still under the spell of the Tulips and Daffodils you have seen in the parks or in your friends' gardens, picture them on your own lawn,—and by a stroke of the pen, insure their charm and beauty for yourself next year!

Our collections include the choicest varieties it is possible to obtain. Of some varieties, single bulbs alone would cost 50 cents apiece. Included

are the wonderful Cottage Garden Tulips that you see in the old Dutch, Flemish, and English gardens where they have flourished for years, treasured by their owners, hallowed by sentiment, beautiful in their own right and with the fragrance of sweet memories.

You need not pay for your order until bulbs arrive from Holland in September. But if you send cash with order, you may deduct a Cash Discount ("Preferred Dividend") of 5%!

These Are Our Prices—if You Order Now!

Matchless Collections of Bulbs at Remarkable Savings!

Per 100

100 Single Early
Tulips in 10
named varieties... \$4.00

100 Double Early
Tulips in 10
named varieties... 4.00

100 Darwin Tulips
in 10 named vari-
eties. 4.50

100 Cottage Tulips
in 10 named vari-
eties. 4.50

100 Breeder or Art
Tulips in 5 rare
named varieties.

Wonderful shades
of Bronze, Buff,
Orange and Apricot. 5.00

100 Parrot or Or-
chid Tulips in 4
named varieties... 5.00

100 Narcissi or
Daffodils for
naturalizing and
lawn planting.

Airy Trumpets,
Medium Trumpets
shortcapped and
the lovely Poet's

varieties. 4.00

100 Bedding Hy-
acinths in 4 colors. 5.50

100 Named Hy-
acinths 2nd size 4

varieties. 7.00

100 Named Hy-
acinths exhibition
or top size in 10

named varieties
for pots or glasses. 14.00

5% discount if you send
cash with order

Schlings's Bulbs

26 West 59th St. New York

COUPON

either for ordering—or just to send for import list

MAX SCHLING, Seedsman, Inc.

26 West 59th Street, New York

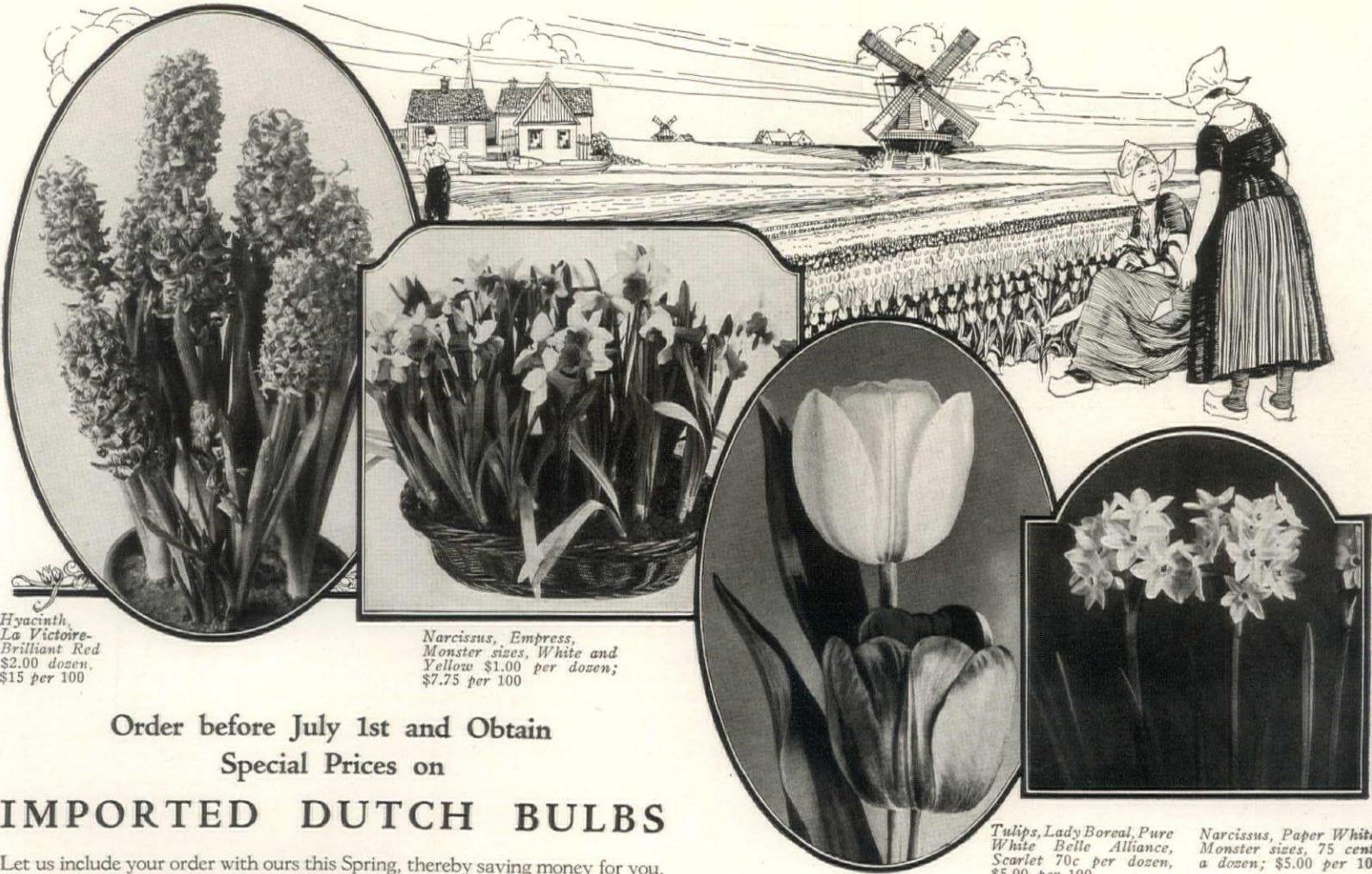
You may enter my order for Bulbs checked on accompanying list, for which I agree to pay at these special import prices when order arrives in September.

I am deducting 5% Cash Discount and enclosing full payment in advance.

Send me your "Import List" of special offers on Bulb Collections.

NAME.....

ADDRESS.....



Hyacinth,
La Victoire-
Brilliant Red
\$2.00 dozen,
\$15 per 100

Narcissus, *Empress*,
Monster sizes, White and
Yellow \$1.00 per dozen;
\$7.75 per 100

Tulips, *Lady Boreal*, Pure
White \$1.00 per dozen;
Scarlet 70c per dozen,
\$5.00 per 100

Narcissus, *Paper White*,
Monster sizes, 75 cents
a dozen; \$5.00 per 100

Order before July 1st and Obtain
Special Prices on

IMPORTED DUTCH BULBS

Let us include your order with ours this Spring, thereby saving money for you. If you order now, we can give you the benefit of our Special Import Price. We cannot do this after July 1st, when we make our selections and place our orders. It has been our custom for years to have our representative visit the leading growers in Holland. Because of our extensive purchases and prompt payments, we obtain for our customers, at most reasonable cost, the choicest varieties of these wonderful Dutch Bulbs.

Holland Bulbs The Best In The World!

No other country has been able to produce such bulbs as those grown in Holland. They are famous the world over. From this toyland of painted roofs, wandering dikes, and sky-blue tiles the Elliott Nursery Company for thirty-five years has been the largest importer of these unequalled Dutch Bulbs.

Grown By Generations Of Specialists

Just think of the satisfaction of growing in your own garden or home these beautiful flowers,—Tulips, Hyacinths, Narcissi, etc.—many of which actually represent the life-work of generations of specialists. Our catalog lists a vast number of varieties, many not usually obtainable in this country at any price.



You Can Easily Grow These Flowers In Your House

From Christmas until Easter you can have these beautiful flowers blooming in your home. Think how the yellow Narcissi will brighten the dark library and the pink and blue hyacinths the dining room. Think of enjoying the glow and fragrance of these spring flowers in your home! Best of all, remember you can grow them yourself for a few cents each and with almost no care—flowers that often cost \$1.00 or more a plant in retail shops. Our catalog will give you full instructions.

Write At Once For Beautifully Illustrated Catalog

Send us a line today—use coupon below if more convenient—and obtain our catalog at once. It shows thousands of varieties, many in their natural colors. It will fascinate you and prove to your satisfaction how simply and inexpensively you can grow these bulbs in your garden and house. Complete directions for planting bulbs are given. They require very little care.

Read What These People Say:

Admiration of the town! "I want to tell you how magnificent my daffodils are. They are the admiration of the town, and have given us untold pleasure. Numbers of my friends have asked me to order for them. Each daffodil is the size of a teacup. Many bulbs have four flowers, and not one has failed to produce two." —G. D. S., Uniontown, Ala.

Beyond Expectations! "I must tell you what excellent results I have had with the bulbs I ordered from you. By Easter, all the hyacinths and tulips showed large, healthy buds, which have matured far beyond all expectation. The quality of bulbs offered by you, even in cheaper mixtures, far surpasses that often sold at much higher prices." —R. C. A., Kansas City, Mo.

Nothing short of wonderful! "I have in my front window, as the admiration of all the passersby, the finest group of tulips ever seen in this city. With their gorgeous colors, odd shapes and exquisite shades of color, they are nothing short of wonderful." —J. A. S., Portland, Me.

MAIL THIS COUPON TODAY

Elliott Nursery Co.,
514 Magee Bldg., Pittsburgh, Pa.

Kindly send me Free Booklet about Imported Dutch Bulbs with full directions how to grow them in house and garden.

Name _____

St. and No. or R. D. _____

City _____ State _____

A FEW SPECIAL PRICES If Ordered Before July 1st

Exhibition Hyacinths	Doz.	Hund.
La Grandesse	Pure White	\$2.00 \$15.00
Grande Blanche	Blush White	2.00 15.00
La Victoire	Brilliant Red	2.00 15.00
Rosen Maxima	Delicate Blush	2.00 15.00
Enchantress	Light Blue	2.00 15.00
City of Haarlem	Best Yellow	2.00 15.00
Second sized Hyacinths in all best varieties		1.50 11.00
Miniature Hyacinths in separate colors		.70 4.75

Tulips		
Mon Tresor	Yellow	.85 6.00
Belle Alliance	Scarlet	.70 5.00
Lady Boreel	Pure White	.70 5.00
Keiserkroon	Red & Yellow	.65 4.50
Rose Griselin	Beautiful Pink	.65 4.50

Narcissi or Daffodils		
Paper White	Monster Sizes	.75 5.00
Golden Spur	Select Rich Yellow	.75 5.50
Emperor	Mon- ster Yellow	1.00 7.75
Empress	ster White & Yellow	1.00 7.75
Von Sion	Sizes Double Yellow	1.00 7.00
Poeticus Ornatus	White	.55 3.50
Sulphur Phoenix	Yellow & White	.80 5.50

Booklet lists many other varieties

Make Your Garden Beautiful With These Gay And Sympathetic Companions

These bulbs will bring color and fragrance to your garden at small cost and give you untold pleasure and satisfaction. In order that you may not fail to have these exquisite flowers blooming around you next season, write today for our catalog, make your selection of bulbs, and send in your order before July 1st in order to obtain the special prices.

Order Now—Pay When Bulbs Are Delivered In Fall

You obtain special import price by ordering now and, if you prefer, you may pay for bulbs when delivered during September or October. All bulbs are selected and packed in Holland and reach our customers in perfect condition soon after we receive the shipment.

ELLIOTT NURSERY CO.

514 Magee Bldg. Established 35 years Pittsburgh, Pa.

Our bulb business is one of the largest in the world

Dodson Bird Houses



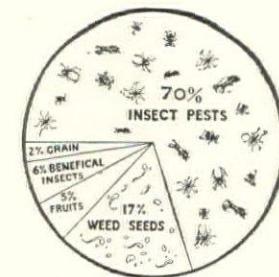
The birds are all my friends. Knowing them makes me happy. They are an inspiration to better living. They can make your life happier.

Joseph H. Dodson

President-American
Audubon Association



See the flycatcher house hanging from the pear tree. Eight bushels of pears with not a worm was this one house's record! The birds will help you.



Facts found regarding the food of birds have originated nation-wide legislature. Note the composite diet of the birds attracted by Dodson Bird Houses. Season after season, these houses afford a protection that allows valuable birds to multiply more rapidly.



Cement Bird Bath

Birds must have water. If you supply it, you may be sure that fruit, berries and other garden delicacies will not be harmed. Here is a scientific bath which the birds have approved. Including basin and stand \$24.50 Other baths as low as \$6.00

Quaint houses ready for you to put up

All the good folk in America are helping to house the birds. You have seen these picturesque little houses of green or white. Each is made under the patient eye of Mr. Dodson, beloved friend of the birds. His life-time study has perfected these houses. They attract the birds. They insure your trees and shrubs and gardens against insect pests. You will be fascinated by their staunch, quaint shapes, their intricate workmanship so necessary to success.

Write to Mr. Dodson! Let his experience guide you.

Martin
Bluebird
Wren

Robin
Woodpecker
Swallow

Flycatcher
Chickadee
Nut Hatch

Cat Bird
Cardinal
Thrasher

JOSEPH H. DODSON
731 HARRISON AVENUE KANKAKEE, ILLINOIS

Dodson Sparrow Trap is guaranteed to rid your premises of this noisy, quarrelsome pest, \$8.00



FREE

You will find much of interest in Mr. Dodson's fascinating booklet, "Your Bird Friends and How to Win Them." There are many styles of bird houses. Mr. Dodson wins for you different birds with each. It is a booklet thru which to browse with pleasure.



SOLVAY GRANULATED Calcium Chloride

DUSTLESS DRIVEWAYS

Firm, clean, moist, dustless driveways and walks are especially desirable on private estates and country clubs. The economical method of obtaining these conditions is to use

SOLVAY Granulated CALCIUM CHLORIDE

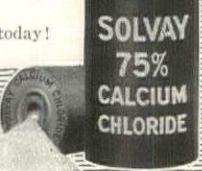
"The Natural Dust Layer"

Solvay is a white chemical salt, particularly adapted for use near or around the house, owing to its lack of objectionable features such as odor, tracking, discoloration, etc. It is harmless to men or animals and not injurious to auto tires, varnish or vehicle paints. A combined dust layer and surface binder, it is by far the most effective method of road treatment.

Extensively used on private and public roads and walks and tennis courts.

The new Solvay Book will interest you. Write for it today!

SEMET-SOLVAY CO.
SYRACUSE, N.Y.



Get this valuable Book on Better Lawn Care

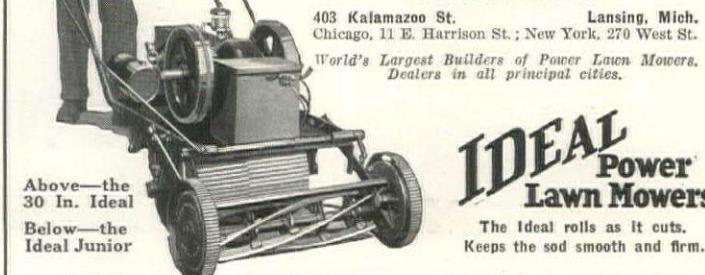


Above—the
30 In. Ideal
Below—the
Ideal Junior

Every one interested in the care of large, beautiful lawns should have a copy of this book, which tells all about Ideal Power Lawn Mowers. It shows many photos of well-known homes, parks, golf clubs, cemeteries, colleges, etc., where the lawns are cared for the "Ideal Way." It tells about the Ideal Junior, a moderate priced power mower for medium-sized lawns, the 30-inch Ideal Power Lawn Mower for large lawns, and the Ideal Triplex Power Mower for large parks, golf clubs, etc. Write for this book today—learn how to keep your lawn in better condition at less cost.

IDEAL POWER LAWN MOWER CO.
R. E. OLDS, Chairman

403 Kalamazoo St. Lansing, Mich.
Chicago, 11 E. Harrison St.; New York, 270 West St.
World's Largest Builders of Power Lawn Mowers.
Dealers in all principal cities.



IDEAL Power
Lawn Mowers

The Ideal rolls as it cuts.
Keeps the sod smooth and firm.

We Offer You Late Tulips of Matchless Beauty

For color in the spring garden no flower equals the late Tulips. They are unsurpassed for delicacy of the pastel shades and the richness of the brilliant tones. They are ideal flowers for borders, for groups among shrubbery, and for more elaborate color effects in any garden design.

To Introduce Our "Cream of Holland" Bulbs to Your Garden

Garden lovers everywhere recognize the quality of our offerings. To encourage you to procure a representative grouping for your garden, we have arranged the following assortments.

SELECTION A "De Luxe Set"

Afterglow—a showy combination of colors.
Aphrodite—clear silvery pink of fine form.
Jubilee—the finest blue-purple.
Louise De La Valliere—a glowing cerise color.
Louis XIV—the finest Tulip in existence.
Massenet—apple-blossom pink with deep blue base.
Prince Albert—the best golden brown.
Salomon—the finest lavender Tulip.
St. James—a fine example of the Breeder colors.
Walter T. Ware—the deepest yellow of all.

100 bulbs (\$10 of each) \$23.70

SELECTION B "Newer Varieties"

Galatéa—glowing cherry-rose; very large.
Godet Parfait—glistening blue-purple.
Lord Cochrane—a fine color in the brown breeders.
Melicette—a charming lavender.
Plutarchus—the best light bronze.
Roi D'Island—a rose tone unlike any other.
Sanchia—our novelty in pale pink Darwins.
Sir Harry—an exquisite rose Cottage Tulip.
Sophrosyne—a pink of very fine habit and shape.
Viking—a huge, tall, dark violet.

100 bulbs (\$10 of each) \$10.65



SELECTION C "Standard Varieties"

Ariadne—our favorite crimson.
Bronze Queen—the best standard light bronze.
Clara Butt—the most popular pink Darwin.
Dream—a good lavender.
Edmee—the best of the two-toned pinks.
Madras—a good darker brown.
Marconi—a big flower in the dark purples.
Nauticus—clear American Beauty rose.
Parisian Yellow—a fine, rich yellow.
Suzan—our favorite pale pink Darwin.

100 bulbs (\$10 of each) \$6.50

Write for the "BLUE BOOK"

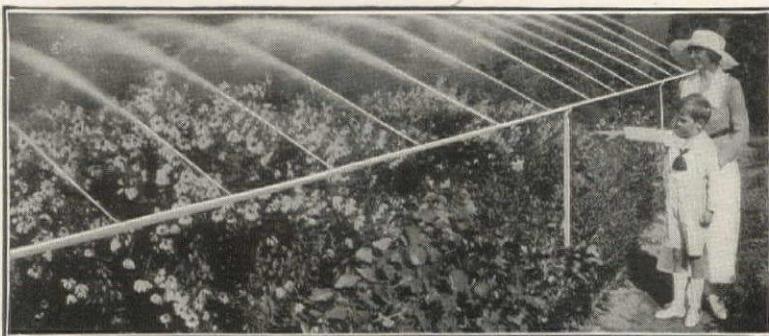
Complete descriptions of all these Tulips are included in our 1922 "Blue Book," a copy of which will be mailed to all who send orders for any of these collections. If you do not order from this advertisement and prefer to make your own selection from our complete list of varieties, send 25 cents for the "Blue Book." This amount will be credited on future orders amounting to \$2.50, or over.

CHESTER JAY HUNT, Inc.,

Mayfair Garden, Dept. K,

Little Falls, New Jersey

RAIN WHEN YOU WANT IT



It Makes Your Garden Water Itself

A TURN of a valve and at once comes a gentle rain-like watering, that thoroughly and uniformly waters every square inch of your garden. Not just wet on top, mind you; but wet way down below the roots, so they can draw on it for days. It neither puddles nor packs the soil.

Increases your soil's fertility by uniformly converting into

liquid form the soil foods, which are otherwise totally unavailable to the roots.

No watering system waters like the Skinner System. It waters equally well, a small garden or acres. Even so little as \$9.75 buys one of our 18 feet Portable Rain Makers.

Nothing to get out of order. Lasts a lifetime. Catalog if you wish.



The Skinner Irrigation Co.

231 Water St., Troy, Ohio

Grow Your Own

It's Lots More
Fun!

EVERYBODY wants Perennials—and wants them in generous measure, to secure the desired effects in color and charm. If you delay and finally buy plants, the cost amounts high; an attractive perennial border may require several hundred dollars' worth of plants.

Exactly the same results can be secured with a few dollars' worth of SEEDS! And aside from the money saving you have the fascination of growing your own plants, nursing them from the beginning, and loving them all the more! Sow your seeds now, and the plants will bloom next year.

A Garden of Perennials for \$2 (Regular Price, \$4.90)

Achillea, The Pearl. 3 ft.
Alyssum saxatile. Yellow. 3 ft.
Aquilegia (Columbine), Giant Long-Spurred. 3 ft.
Campanula pyramidalis, Blue. 4 ft.
Coreopsis grandiflora. 2 ft.
Delphinium, Finest Hybrids. 4 ft.
Dianthus, Hardy Double Garden Pinks. 1 ft.
Digitalis (Foxglove), Spotted. Mixed. 3 ft.
Gaillardia grandiflora, Mixed. 1 ft.
Geum, Mrs. Bradshaw. 18 in.
Gypsophila paniculata (Baby's Breath). 3 ft.
Hollyhock, Chater's Double, Mixed. 5 ft.
Lupinus, Excelsior Hybrids, Mixed. 3 ft.
Lychnis Haageana hybrida. 18 in.
Lythrum roseum superbum. 3 ft.
Pentstemon, Large-Flowering Hybrids. 3 ft.
Platycodon grandiflora. Blue. 2 ft.
Poppies, Iceland, Mixed. 1 ft.
Pyrethrum roseum hybrida. 2 ft.
Shasta Daisy. 18 in.
Stokesia caerulea. Blue. 18 in.
Sweet Rocket. 3 ft.
Sweet William, Holborn Glory. 1 ft.
Valeriana (Garden Heliotrope). 3 ft.
Viola cornuta (Tufted Pansies). 6 in.

Our "Book for Garden-Lovers" (25 cents a copy) FREE with above offer.

Schlings' Seeds

26 West 59th St.
New York



The Most Greenhouse—For the Least Money

BY the least money, we mean, the least that is consistent with lastingness and the making of a happy healthy home for your plants.

It's just a clean cut, thoroughly practical greenhouse, in which the ornamental touches and extra refinements, so to speak, have been eliminated.

Still it is decidedly good looking, and will grow just as many and just as fine quality of flowers, as any house that costs more.

It is a house we have been building for years. But the times have made so many folks want to strip things for the running, as it were, that they quickly buy this Practical Purpose house, when they would not buy our regular one with its curved eaves and other features.

Glad to send you fullest of particulars, or one of us will come and talk it over with you.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

IRVINGTON NEW YORK
New York 30 E. 42nd St.

PHILADELPHIA
Land Title Bldg. Cont. Bk. Bldg.

CHICAGO
11 Little Bldg.

BOSTON
407 Ulmer Bldg.

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TORONTO
Harbor Commission Bldg.

EASTERN FACTORY
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CANADIAN FACTORY
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BIRD BATHS
FOUNTAINS
SUN DIALS
VASES
JARS
GAZING GLOBES
BENCHES
FLOWER POTS
BOXES, ETC.

GALLOWAY POTTERY

Gives the Essential Touch to a Garden

A Bird Bath makes a delightful spot of interest, a Sun Dial adds quaintness while Jars and Vases form charming contrasts against the colorful backgrounds.

Many attractive designs are executed in our light stony gray, high fired, frost proof TERRA COTTA. Red, buff and other colors will be made.

Our catalogue illustrating 300 numbers will be sent upon receipt of 20c in stamps.

Galloway Terra Cotta Company 3218 Walnut Street
Established 1810 Philadelphia

Mr. Farr Selects Ten Tulips for House & Garden Readers

Amateur gardeners, and those of long experience, fasten their faith to Farr's Selected Dutch Bulbs just as they do to Farr's hardy plants. Many gardeners have asked me to name ten Tulips for outdoor growing—here they are, in Single Earlies and Darwins—

Special Group of Single Early Tulips	Special Group of Darwin Tulips
Doz. 100	Doz. 100
Artus. Bright scarlet. \$0.65	Bartigan. Fiery red,
\$4.50	the earliest.....\$1.00
Chrysolora. Pure	Clara Butt. The best
golden yellow.....	salmon pink.....
.65 4.50	.65 4.50
Pink Beauty. Rosy	La Tulipe Noire. The
pink, shaded white..	Black Tulip.....
1.00 4.50	.75 5.00
Keizerkroon. Red,	Mr. Farncombe Sand-
border yellow.....	ers. Brilliant scarlet,
.65 4.50	large and showy....
White Hawk. Pure	.90 6.50
white.....	William Copeland.
.90 6.50	Light Lilac.....
	.85 6.00

A special discount of 10% will be given on these varieties if your order is received before July 1, 1922, and you mention House & Garden. Cash should accompany your order.

"Better Bulbs by Farr" is the title of my 1922 catalog of the most desirable Tulips, Hyacinths, Narcissi and Crocus for garden and house culture. I will gladly send you a copy on receipt of your name and address.

Bertrand H. Farr, Wyomissing Nurseries Co.
106 Garfield Avenue, Wyomissing, Pa.

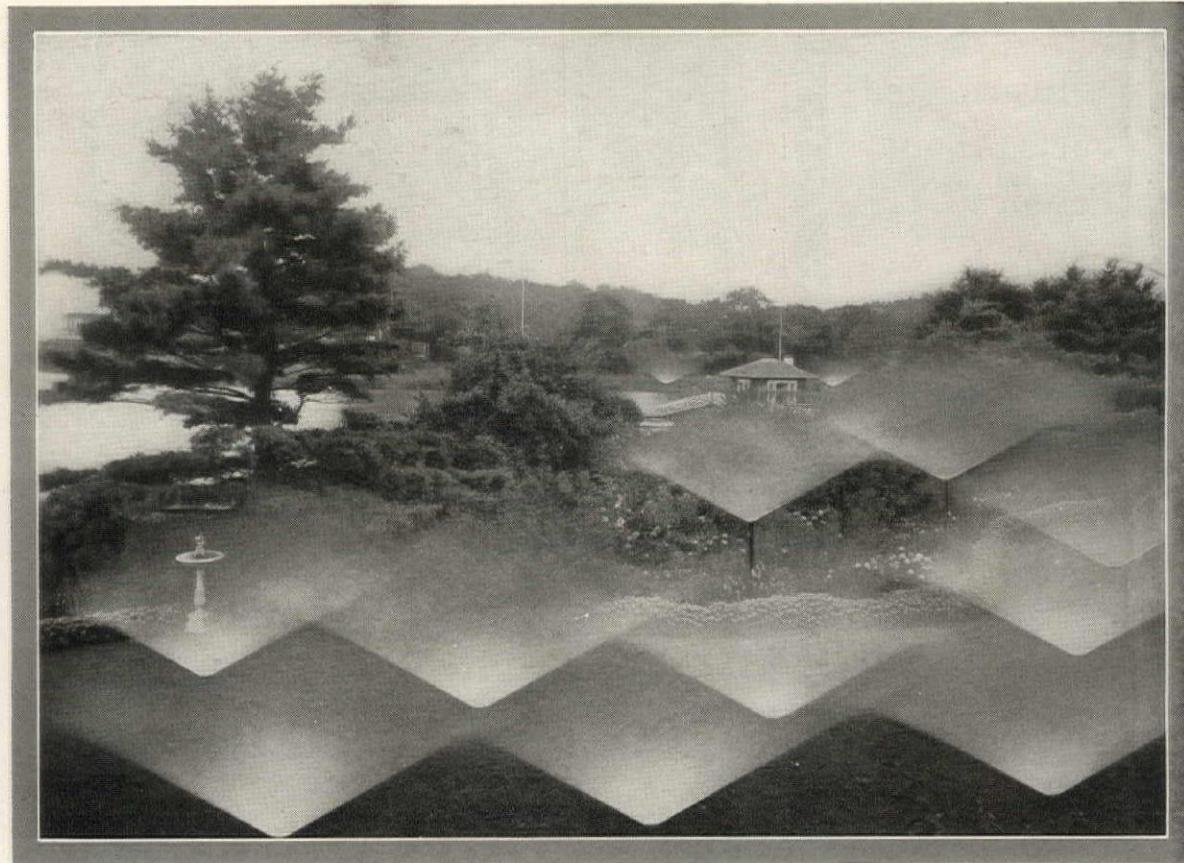
Wyomissing is famous the world over for Peonies and Irises. Thousands of people visit us during the blooming season, not only to see the display, but to select for their own gardens the varieties that are most appealing in loveliness. Our Peonies are usually at their best from June 5 to 10th, according to the season. Therefore, visitors should write or wire for the best days on which to visit this wonderful display.

IMPROVING NATURE

It's not enough nowadays to seed a lawn, set out shrubs and plants and then let nature "do the rest." Only in rare seasons does nature supply sufficient moisture to impart full vigor to a lawn or garden and make it lastingly beautiful.

The early gardeners soon learned the value of constant watering by hand, to supplement nature. And the modern gardener carries the improvement still further by the use of Cornell Irrigation Systems. Like having rain when you want it, where you want it and as much as you want.

A Cornell system is absolute insurance against dry weather, and quickly pays for itself in the losses it prevents.



We are prepared to make complete surveys and submit plans and specifications covering the installation of piping systems and pumping units.

W. G. CORNELL COMPANY :: UNION SQUARE NEW YORK CITY
PLUMBING · HEATING · LIGHTING

Chicago
Cleveland
Washington

Kansas City
Baltimore
Newark

Boston
Philadelphia
Norfolk

Pittsburg
St. Louis
Montreal

Cornell
Systems of Irrigation

SEND me free of charge, your illustrated booklet describing in detail the Cornell Systems of Irrigation.

Name

Address

Safe Economy IN A POWER MOWER

Strength is not sacrificed to lightness, nor durability to price in this mower, yet it is the handiest and most economical power mower on the market. Not built to meet a price but to fulfill a need in a highly satisfactory way. Compare the new low price of the Jacobsen 4-Acre Mower with the work it performs, look at its finished, sturdy construction, and you must admit it is a rare value.

The "4-Acre" Power Mower

The Pinnacle of Perfection in Power Lawn Mowers

Here are just a few of the outstanding advantages of the "4-Acre."

Motor specially designed, air-cooled, forced draft, magneto ignition, throttle control, powerful and reliable. Will cut on 35° incline.

Gear Drive enclosed. Transmission and clutches run in bath of oil. Entirely dirt, dust and fool proof.

Independent Control of Power on Cutting Unit and Traction. Wheels so operator may travel over stony roadways, up and down curbings, etc., without revolving cutting unit.

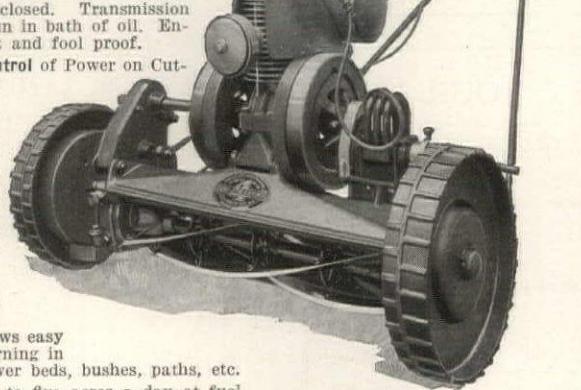
Differential in Wheel gives power on both wheels, yet allows easy steering for turning in and out of flower beds, bushes, paths, etc.

Capacity—four to five acres a day at fuel cost of less than 40 cents.

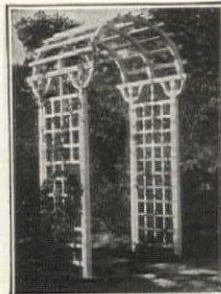
BEAUTIFUL CATALOGUE SENT FREE

Reduced 1922 Price \$270 F. O. B. Racine. Grass Catcher \$5. A Dealer's Opportunity. Write Today.

Jacobsen Manufacturing Co.
Dept. A. Racine, Wisconsin, U. S. A.



No. 10 Rose Garden Arbor
for \$37.50 F.O.B. Chicago



Pergolas—Arbors and Lattice Fences

Also: Artificial Stone Fountains, Flower Vases, and Bird Baths. Bronze Sun-dials, and Gazing Globe.

This advertisement shows only a few selections of suggestive features taken from our catalogue which contains several hundred practical illustrations of distinctive Garden decorations for beautifying the surroundings of home. Here, too, you will find suggestions which are suitable for making your garden a reposing place for leisure hours.

When writing for copy enclose 20c and ask for Catalogue "P-33"

HARTMANN-SANDERS COMPANY

Factory and Showroom: 2155-87 Elston Ave., Chicago.
Eastern Office and Showroom: 6 East 39th Street, New York City

"Unvarnished Facts About Peonies"

OUT in Kenosha, Wisconsin, there is a real peony fan, Henry S. Cooper, whose love for the flower has led him over many years to the fullest understanding and appreciation of this beautiful flower.

Last year Mr. Cooper issued a catalogue of the peonies he offered for sale from his collection. The book "Tips and Pointers for Beginners with Peonies," which he sends out free, created a great deal of interest. It contained much helpful information about the peony never before published. Letters from enthusiastic readers all over America testified to the help and inspiration of its pages.

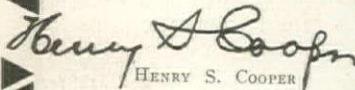
If you will be satisfied only with the best peonies in your garden, you will want to read this book, and thus partake of the knowledge of one of the most enthusiastic peony lovers.

At the request of friends, Mr. Cooper has this year published a more elaborate book,

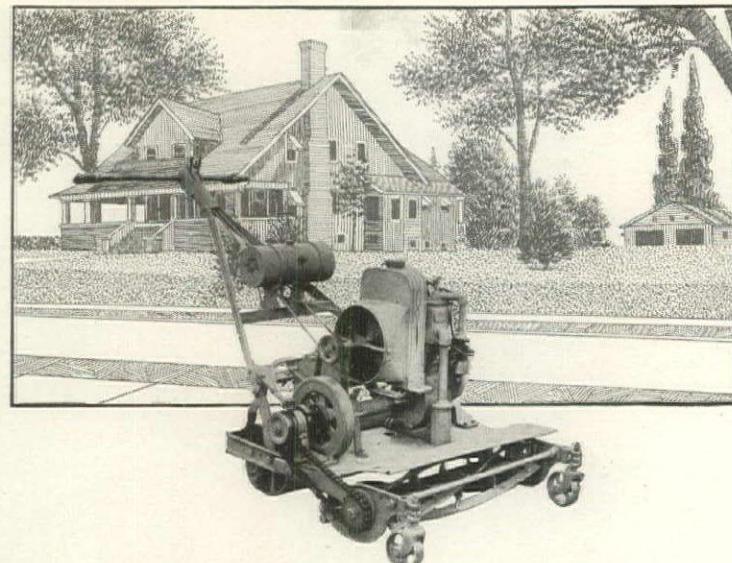
"Unvarnished Facts About Peonies"

which he offers to readers of House & Garden at this time,—in describing the book, Mr. Cooper writes: "This year I am publishing a larger book with much more information for peony growers, and with colored plates, which, I am told, are the most real and natural pictures of peonies ever published. It cost me a raft of money, and I have to make some kind of a nominal charge for it. So I charge twenty-five cents and if you do not think it worth one dollar, I will send back the twenty-five cents and you can keep the book. You can also deduct the twenty-five cents from your first order amounting to \$5.00, so the book won't cost you anything. I think it will be worth more than it costs you, as it has so much new matter that has never before been published."

You surely cannot invest twenty-five cents better.


HENRY S. COOPER

Peony Fan
KENOSHA, WISCONSIN



A Home Well-Liked Through a Lawn Well-Kept

Only through exceeding care may the lawn about your home be kept in the good health necessary to make it the desired setting for your beautiful house.

Proper trimming is essential to a vigorous grass growth and light rolling of the lawn immediately after is also needed to impart that velvety green softness of appearance.

The Model "L" Roller and Motor Lawn Mower combines in one handy little machine these two good-lawn necessities—and in so doing effects a great saving in time and cost.

Powered by a sturdy Fuller and Johnson motor especially designed for this machine, the Model "L" cuts and lightly rolls a 25-inch swath to the total of six acres per day—if needed.

We have an interesting little book about lawns, which was written by a man who loved their beauty. Shall we send you a copy?

COLDWELL LAWN MOWER CO.
NEWBURGH, N.Y. U.S.A.



BIRD BATH AND LAWN SPRAY

ATTACH YOUR HOSE

Spray easily adjusted from small single stream as fountain to wide spread of 30 feet for lawn.

PORTABLE

CAST IRON

CEMENT COLOR

Diameter Bowl 20 in. Height 29 in.

East Mississippi

West Mississippi

\$12.50 Carriage Paid \$13.50

The Simpson Foundry & Engineering Co.
NEWARK, OHIO



BEAUTIFY YOUR HEDGE with the LITTLE WONDER HEDGE TRIMMER

Trade Mark Reg. U. S. Pat. Office.

THIS invention takes the work out of hedge-trimming. Trims 5 to 10 times as fast as by hand—various adjustments and attachments suit it to every shape and cut.

\$27.50 PREPAID east of the Mississippi

\$30.00 west of the Mississippi

Light and easy to operate.

Will trim back the new growth of hedge during the summer months and keep your hedge as neat as your lawn. Is mechanically perfect and made of the best of materials. Weighs sixteen pounds. Numerous testimonials from users. Complete instructions accompany each machine. Sold by leading dealers. Write today, enclosing check, and we will ship your machine at once. References. Circulars on request.

JOHN C. DETTRA MACHINE CO.,
OAKS, Montgomery County, PENN.



DAHLIAS

"Plant in June
for Finest Bloom"

Special Introductory Offers:

Five beautiful Cactus Dahlias	\$1.00
Five grand Decorative Dahlias	\$1.00
Two giant Century, Two unique Collarette, Two Ball (6 in all)	\$1.00
Five Peony Dahlias	\$1.00
One root each: Mrs. C. H. Breck, yellow and carmine; Queen Mary, best pink, and L. Kramer Peacock, best white	\$1.00

Above 5 offers, each Dahlia carefully labeled, true to name, and my book on The Dahlia, all post-paid for \$5.00.

OUR NEW CATALOGUE, THE WORLD'S BEST DAHLIAS, not only shows the peony dahlia Queen Elizabeth and Golden West Cactus in natural colors, but TELLS THE PLAIN TRUTH about the best new and standard varieties, including 12 WONDERFUL NEW CREATIONS now offered for the first time.

THE LEADING DAHLIA CATALOGUE FREE.

Write today. A post-card will bring you a copy by return mail. The finest blooms can be had with dahlias planted up to July 1st.

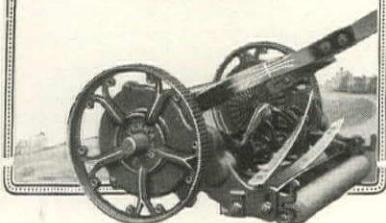
PEACOCK DAHLIA FARMS
(Largest in the World)
BERLIN NEW JERSEY

**PENNSYLVANIA
QUALITY
LAWN MOWERS**

There must be a reason for leadership—and there is.

Pennsylvania Quality has proven in actual service to mean longest lived, most efficient and most economical of all lawn mowers.

At
Hardware
Dealers
and
Seedsmen





A New Invention For Your Garden

THE Empire sprinklers, connected with an ordinary garden hose to a faucet with average water pressure will sprinkle your garden evenly and without waste of water. Made in three sizes:

Empire Midget—portable and compact, solid brass nozzle, having forty-seven holes. Sprinkles 50 foot circle. Inside the nozzle a strainer prevents outlets from clogging. Weight, two pounds. Price \$2.50 F. O. B. New York City.

Empire Adjustable—This sprinkler embodies a new idea in irrigation; that of having two nozzles on adjustable arms which may be set to throw at one time two fan-shaped sprays in any direction. Each of the two nozzles will throw a spray to cover 40 feet. By turning the arms in opposite directions, the spray will cover 80 feet. Height two feet. Weight six pounds. Price \$6.25 F. O. B. New York City.

Empire Rotary—This is universally adjustable—its arms, its nozzles, its direction, the height of its throw, can all be adjusted. Will cover evenly a 75-foot circle. By pointing the nozzles upward, you can restrict the area. Simple adjustment changes the spray from a rotary to a stationary. All essential parts are of the best brass. Rust proof, handsome finish, strainer in each nozzle, cannot get out of order. Height 23 inches, weight ten pounds. Price \$10.00 F. O. B. New York City.

Orders filled same day as received. Shipped by parcel post or express.

Send for booklet "The Gentle Art of Watering Your Garden."

RAMAPO IRRIGATION CO.
88 West Broadway, New York

Townsend's Multiplex

WHAT YOU CAN DO IN JUNE

A Personal Message from Henry Hicks

HOW many folks will be saying this Summer "How I wish I had planted some shade trees there on the lawn" or "I should have planted some flowering shrubs, perennials or annuals to complete my color scheme but I'll have to wait until next year."

You came to live in the country to enjoy the clean air, the beauty, comfort and quietness of natural living. You came to secure natural playgrounds for your children, home-grown fruits and vegetables for your family and guests. I wonder if you are getting full measure—taking full advantage of your opportunities?

Why delay longer? Why regret omissions? By our tried and tested methods, we can add to your planting in June, just as we are doing for other folks and as we have done for many years.

There is no reason why you should let another year pass without colors, without the charm and peacefulness of shade trees, flowering shrubs and evergreens on your home grounds. Just tell us what you want and depend on us to do all the technical thinking.

We have been growing nursery stock for seventy years and our experience is at your disposal. We have supplied the stock and done the planting on some of the big estates in the East as well as supplied well-grown nursery stock for many John Joneses and Jim Smiths through North-eastern America who trusted us with their orders.

If you want shade, tell us the conditions and we will make suggestions or, you come and pick them out—some are ready in boxes and tubs. If you want more color, let us know what you have planted and we will serve your needs.

Don't envy a beautiful place—have one. We have shade trees and evergreens five, ten and twenty years old that we have been growing, waiting for you to call for. By using them you get immediate results. In other words, we will give you a ready-made garden and express your taste in that garden.

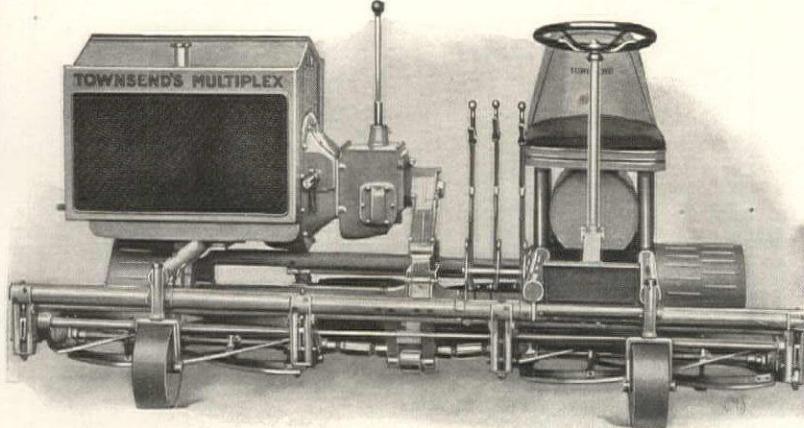
Do you want to enclose your lawn, your flower garden, your laundry yard? Do you want to shut off the street or the next place? A carload of evergreens and shrubs will do it even 1,000 miles away.

The confidence of our thousands of customers is our best recommendation.

If you haven't yet received a copy of "Home Landscapes", send for one. We have just issued a new edition, illustrated with some beautiful colored paintings of actual gardens and it is yours for the asking. Our list of rare plants is extensive. Have the pleasure of looking them over. The chart in our catalog gives you volumes of information on hardy flowers in the most understandable manner.

And remember—if you love a plant, you can make it live anytime.

(Signed) HENRY HICKS



Floats over the uneven Ground as a Ship Rides the Waves

The Greatest Grass-cutter on Earth—Cuts 100 Acres a Day
Cuts a Swath 12 feet, 114 Inches or 86 Inches Wide

ONE unit may be climbing a knoll, another skimming the level and another paring a hollow.

Not an assembly of tractor and mowers but a single, compact machine like an automobile with 3, 4 or 5 cutting units.

Driven by a 17 H.P. four cylinder, water-cooled gasoline motor of great power and quality with Splittori Dixie Aero Magneto, a wonderful radiator, sliding gear transmission, two speeds forward and reverse, etc.

Can also be drawn by horse, the motor being removed, or converted into a powerful tractor by detaching the cutting units.

Can back up or turn a complete circle in double its width. Can stop in six inches:—it has a powerful brake—the only one that has. This is vital.

It has not a single cog wheel in its cutting units and but few elsewhere and those few very strong.

The cutting units are controlled from the driver's seat. Throw them in gear, throw them out, raise them, lower them—all with a tiny lever at your right.

Do we guarantee it? Write your own.

Send for catalogue illustrating all types of TOWNSEND MOWERS.

S. P. Townsend & Co., 244 Glenwood Avenue, Bloomfield, N. J.

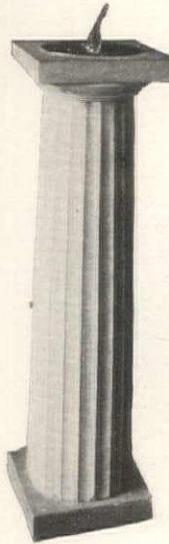
Enjoy a Month of Peonies

YOU can easily arrange a full month of Peonies with every day unfolding new beauty. The color and season chart of our Peony Catalog will show you how.

Be sure to visit our peony fields between May 25th and June 15th, when the iris, followed by the peonies, will be worth coming miles to see. In any case, send for our catalog of peonies and iris, for the pages of which the camera has preserved charming glimpses of these varieties.

S. G. HARRIS, Peony Specialist
Box H **Tarrytown, N. Y.**

YOUR GARDEN NEEDS A SUN DIAL To add to its completeness



No garden is complete without robins, wrens and other cheery native birds to give it song and life. The greatest inducement you can offer them to visit you this summer is a good bird-bath.

Our bird-baths, fountains, benches and all kinds of garden furniture and ornaments are made of artificial stone properly designed, attractive, and as durable as stone.

Catalogue G describes and illustrates them interestingly. We shall be glad to send it upon request.

Architectural Decorating Co.
"Make Your Garden as Attractive as Your Home"
1600 South Jefferson St. Chicago, Ill.

No. 238 Price \$14.00
Weight, 80 lbs. Approx. Height, 24 in.

OUR FRIENDS —the BIRDS

will appreciate a Bird Bath at which to pause, drink and bathe. Many designs of bird baths, sundials, Garden seats and Ornamental flower pots are illustrated in our 1922 catalog sent free on request.

Dealers attention.

**THE WHEATLEY
POTTERY COMPANY**
4617 Eastern Ave., Cincinnati, O.



HICKS NURSERIES

(Mention House & Garden)

WESTBURY, BOX H. LONG ISLAND, NEW YORK



Make A Clear Cut Edge to Your Lawn WITH A

Richardson Border Machine

(1922 MODEL.)

THE use of the Richardson Border Machine is conducive to a better kept lawn, in that while the lawn is being mowed the edges can be trimmed quickly and easily. The inclination to neglect the edges is removed by the facility with which this machine does that work, with little effort and fatigue.

Please Write for Booklet

THE STANDARD SAND and MACHINE CO.

5151 St. Clair Avenue

Cleveland, Ohio

For Better Gardens

Your vegetable garden, roses and other flowers find a destructive foe at this time in a little green bug called Aphis. It attacks leaves and stems.

SPRAY "Black Leaf 40"

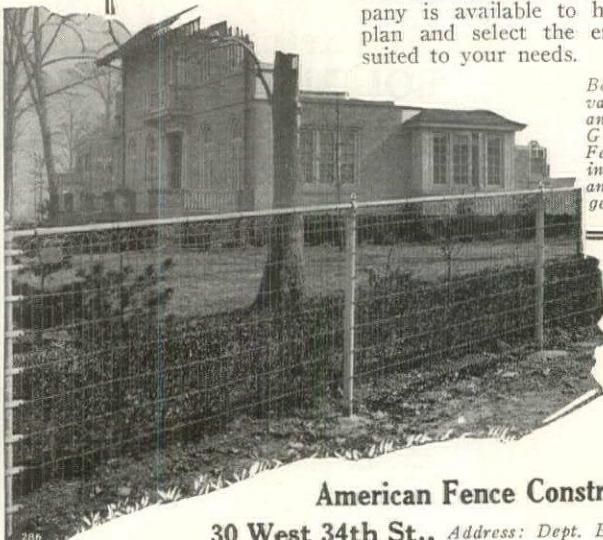
It Kills Aphis, Thrip, Leaf Hopper and other soft-bodied sap-sucking insect-pests on trees, shrubs, flowers, vines and vegetables. Bottle, making about six gallons of spray, 35c.

Order it through your dealer in ample time for your needs.

Tobacco By-Products
and Chemical Corporation
(Incorporated)
Louisville, Ky.



For Perfect Flowers



American Fence Construction Co.
30 West 34th St., Address: Dept. E New York



"Like a Gentle Shower"

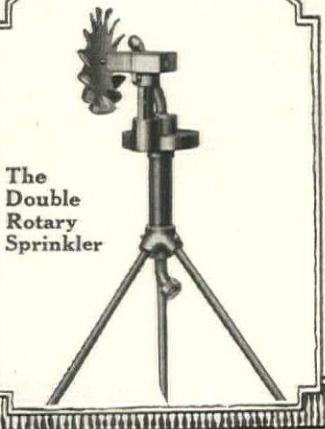
The DOUBLE ROTARY SPRINKLER, constructed on a new and improved principle of efficiency, has won the approval of particular home owners and landscape architects in all parts of the country. It sprinkles more lawn surface—better, is self-operating and built to serve many seasons.

THE DOUBLE ROTARY SPRINKLER

Sprinkles the even, natural way "like a gentle shower". Covers a radius of 15 to 80 feet, according to water pressure. All parts are made of best materials and are interchangeable. Price \$12.50 prepaid anywhere East of the Rockies. Order from this advertisement or write for further description and information.

THE DOUBLE ROTARY SPRINKLER CO.

1229 Coca Cola Bldg. Kansas City, Mo.



Halftone of model No. 102
Before Building See
Your Home in
Miniature

Attractive!

A PRETTY home, a delightful lawn and entrancing garden may be made doubly attractive and kept that way by a suitable fence enclosure—one that will be beautiful and yet possess utilitarian value. The designs available in

Afco Fences and Gates

possess the elements of strength and permanent attractiveness, combined with a properly moderate investment.

The Service Staff of our Company is available to help you plan and select the enclosure suited to your needs.

Book 22W Private Estates and Residence Gates and Fences contains interesting examples and suggestions.

THE book, "Small Homes of Character," contains fifty examples of four, five, six and seven room homes. One of them is sure to meet your requirements or afford you valuable suggestions. It is yours for one dollar.

DEFINITELY visualize your home after selecting the plan you like best by sending for a card-board model. The models are on a scale of $\frac{1}{8}$ inch to equal one foot. Done in colors to illustrate to you attractive color combinations.

Send for book now and select the model you want.

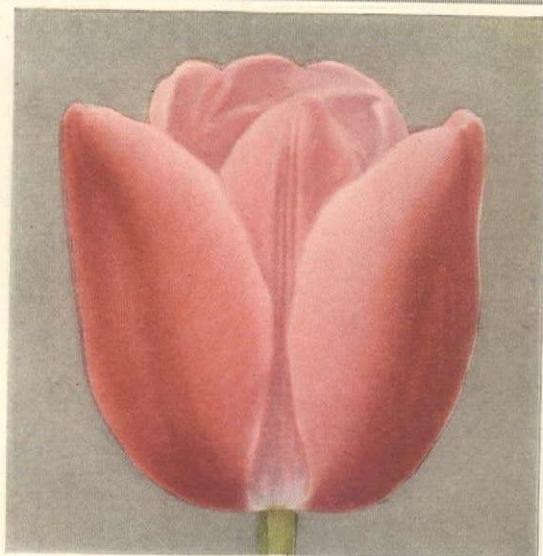
Price Postpaid, \$1.00.

Architectural House Planning Service
Company
20 S. 18th ST. PHILADELPHIA, PA.

EXCEPTIONAL TULIPS FOR YOUR GARDEN



LOUIS XIV
Height 32 inches. \$3.00
a dozen, \$24 a hundred



PRINCESS ELIZABETH
Height 28 inches. \$1.15
a dozen, \$7.50 a hundred



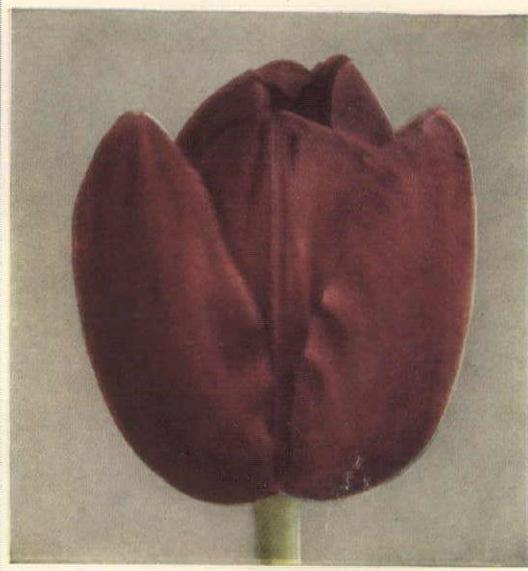
BRONZE QUEEN
Height 28 inches. \$1.10
a dozen, \$7.00 a hundred



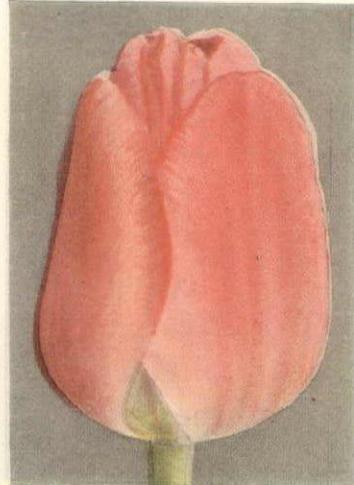
GESNERIANA IXIOIDES
Height 24 inches. \$1.00 a dozen, \$6.50 a hundred



BACCHUS
Height 33 inches. \$3.25
a dozen, \$26 a hundred



VELVET KING
Height 31 inches. \$1.90
a dozen, \$15.00 a hundred



FLAMINGO
Height 28 inches. \$1.10
a dozen, \$7.00 a hundred



LUCIFER
Height 30 inches. \$1.90
a dozen, \$15.00 a hundred

Catalogue on request
John Scheepers
INC.
522 Fifth Avenue
New York

SCHEEPERS' bulbs have always stood for highest quality. To extend their enviable reputation, we offer this collection of beautiful tulips at a special price.

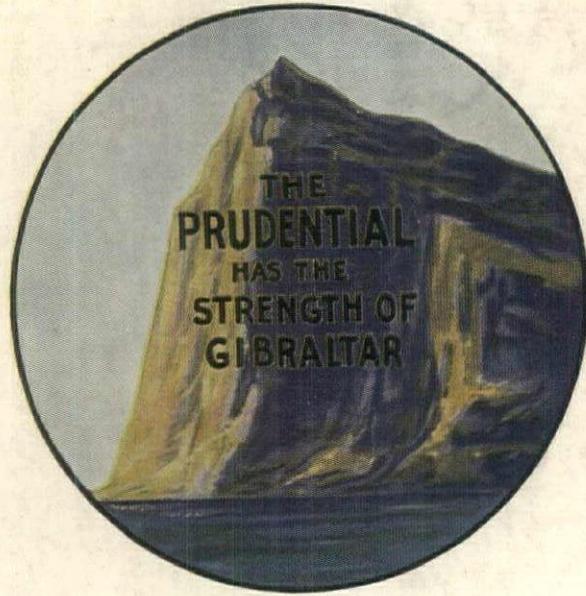
The collection consists of twelve bulbs each of the eight varieties pictured (96 bulbs), catalogue price \$14.40, sent prepaid for **TEN DOLLARS** if ordered now.

Each variety labeled and packed individually with planting instructions. Delivered in time for Fall planting.

Our Guarantee:

As bulb specialists of twenty-five years' experience, we supply only bulbs of the finest quality. We guarantee to replace gratis any bulb which does not produce a perfect flower under ordinary care.

Four Gold Medals have been awarded us by the Horticultural Society of New York and two Gold Medals by the Holland Bulb Growers' Association for bulbs of the same quality as those offered on this page.



The Prudential in 1921

Paid-for business (issued, revived and increased) \$1,139,784,232

Over \$107,000,000 greater than in 1920, The Prudential's best previous year—an achievement testifying to the constantly increasing confidence of the public in The Prudential.

Total insurance in force \$5,668,080,870

Including an increase of over \$572,000,000 made during 1921.

Number of policies in force 22,143,233

Representing insurance on one out of every eight persons in the United States and Canada.

Number of death claims paid since organization 3,191,139

Including 175,623 claims paid in 1921, at the rate of 585 for each business day.

Paid policyholders in 1921 \$68,970,512

Total paid policyholders since organization, plus amount held for their security, now exceeds \$1,538,342,000.

Dividends paid policyholders in 1921 \$16,537,822

Since mutualization became effective in 1916, policyholders whose contracts contained no provision for dividends have received \$27,000,000 in dividends, which would not have been paid under the Company's previous practice.

Reserves, held to protect policy contracts \$717,824,358

Held for policy dividends, payable after 1921 20,752,077

Other liabilities 17,680,126

Surplus, including capital stock 33,251,662

Assets \$789,508,223

The savings of Prudential policyholders, securely held and busily working in loans upon homes, farms, schools, railroads and other industries, as well as in municipal, state and government securities.

ALL FORMS OF LIFE INSURANCE ISSUED

The Prudential Insurance Co. of America

Incorporated under the laws of the State of New Jersey

Forrest F. Dryden, President

Home Office, Newark, N.J.

Founded by John F. Dryden, Pioneer of Industrial Insurance in America

House & Garden



Furniture Number

February 1922

CONDÉ NAST Publisher

35cts - 3.00 a year



PADEREWSKI
Painted for the Steinway Collection
by Charles E. Chambers

AN APPRECIATION *by* IGNACE J. PADEREWSKI

"The supreme qualities of the Steinway piano have been for many years universally recognized. Musicians and the musical public have long regarded it as the standard of perfection. It would seem from this that the summit had been reached, for with the attainment of perfection progress is stopped. And yet, in the case of the Steinway, this law of nature seems to have been defied. I feel obliged to declare, upon revisiting Steinway Hall after an absence of many years, and I do most emphatically declare, that an astonishing progress has been achieved. To the former qualities, now magnified and intensified, an entirely new quality has

been added, one which once was considered almost incompatible with the character of tone—an easy, light, surprisingly agreeable action. Another thing—I have tested a very large number of Steinway Concert Grands, and I have not been able to choose any one of them as the best, because all are best. . . . There is something in the history of the Steinway family to bring joy to the heart of every one who is devoted to his profession. The Steinway piano is an unmistakable product of love of profession, and to it I pay my tribute of high esteem and admiration."

*Steinway & Sons and their dealers have made it conveniently possible for music lovers to own a Steinway.
Prices: \$875 and up, plus freight at points distant from New York.*

STEINWAY & SONS, Steinway Hall, 109 E. 14th Street, New York

STEINWAY
THE INSTRUMENT OF THE IMMORTALS

LET EVERY WOMAN HAVE HER HOME

Tens of thousands—Yes, hundreds of thousands of families are living amid conditions that militate against happiness and real home-making.

OME one has said that there is no home no matter how many its rooms, big enough for two families, if they must come into daily contact with each other. No additional reason is needed for a resumption of our house building, which has been so largely suspended. No woman can be Queen who is only half a Queen. Such has been the shortage of dwellings that in hundreds of cases several families have had to live together to the ultimate disadvantage of themselves, the community and the nation. There have been big reductions on every building material, and while it is true that the old scale of prices has not been reached, it is probable that we shall never reach the old scale. It is not certain that we should. Therefore, now that the strain on our pocketbooks has eased, there is no reason why the threads of our normal life should not be once more woven into the



Beautiful Glencoe, Illinois, suburban estate of Geo. W. Klewer, Architect—with its strong suggestion of English influence, finished with an exterior coating of cement stucco over Bishopric Base, rough in texture and warm gray in hue. The frank inclusion of the garage as an integral part of the floor is commendable as an indication of the desire of the designers to avoid subterfuge in handling an essential modern home requirement.



Handsome residence of A. B. Headley, Esq., Rochester, N. Y.—Architects, Foote-Headley & Carpenter. Bishopric Base used on all exterior stucco walls. Stucco gives to this house the greatest artistic touch, it is a harmonious link between the dwelling and its surroundings—upon every hand we see these picturesque homes of stucco.

old pattern and ideal. The undebatable fact is that we need houses—must have houses or take the consequences. The apartment house meets the demand of many people, serves an admirable purpose, but a civilization which must crowd its children into apartments and tenements must suffer. The children of the present are the citizens of the immediate future. If these children have not the opportunity for mental and physical development, not only the economic, but the moral life of the community must suffer.

Distinctly Colonial is the house here with its roof of mottled slate—a property of rolling contour, permitting a drive of easy grade, paves the way to the unusually interesting garage of wood and stucco, which embodies a roomy, two-car garage and living apartments for servants.



Adv.

SWEETHEARTS—YOUNG AND OLD

*Derive Their Greatest Pleasure in Planning
Their Nest*

HAPPINESS comes with the completion of their task and the result something like these Beautiful Homes.

You've read the stories about quaint, cozy, dear, lovable homes that seem to have personal charm and actual personalities.

The several shown herein are nicer than any you've ever read about. If you passed such homes as these, in your Sunday strolls, you'd feel a little tug at your arm and hear your sweetheart, your wife, saying: "Oh, oh, isn't this or that a perfectly dear house, John?"

And you'd say "Yes, it surely is," and wish that you had one just like it. **YOU CAN** have one just like any of these pictured dwellings—and now is the very time to build, and at a surprisingly moderate cost.

For a picturesque hill side site, the house depicted at right is singularly appropriate, its high-pitched roof reflecting the steep grade of the landscape—Bishopric Base finished with an exterior coating of cement stucco makes this an exceedingly attractive house.—Architect.



Let us tell you all about it, let us send you "Bishopric for all Time and Clime," a booklet containing facts and details on insulation, sound-deadening, damp-proof construction, illustrated with photographs of beautiful houses built with Bishopric stucco, plaster and sheathing units. This booklet is yours for the asking.

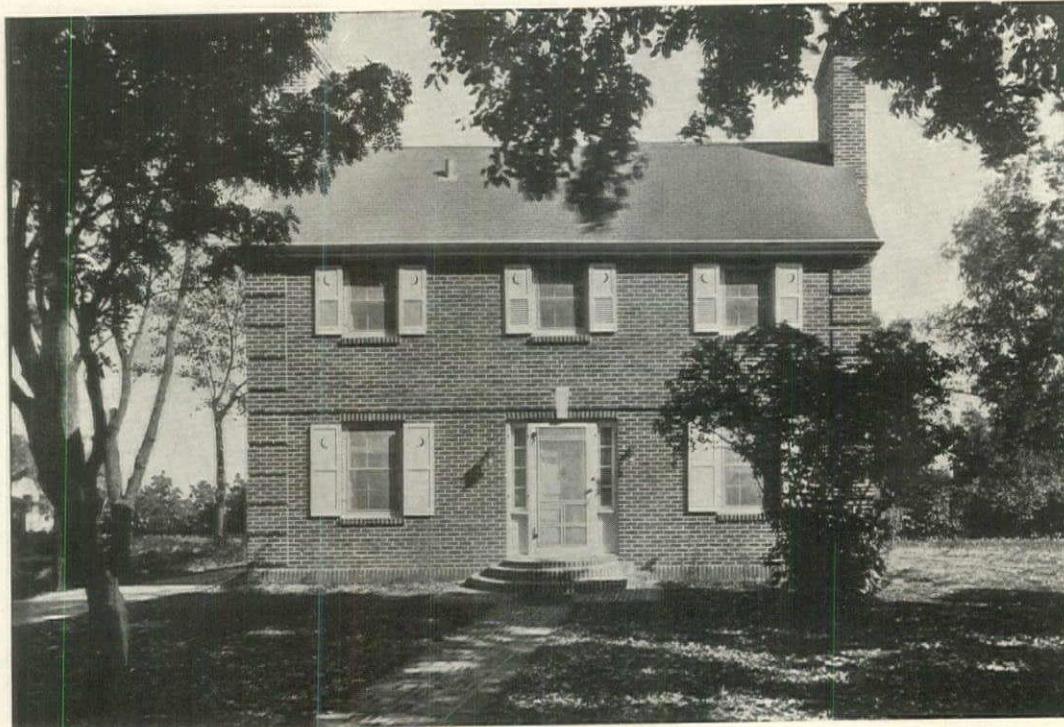
It is of great importance in the construction of the house of stucco to provide for the preservation of its beauty, its resistance against fire, vermin and decay, its insulation against change of temperature and dampness. Bishopric stucco and plaster base in construction and in use, offers the possibilities of this insurance.

The Bishopric Manufacturing Co.

578 ESTE AVENUE, CINCINNATI, OHIO

New York City Office: 2848 Grand Central Terminal

Factories: Cincinnati, Ohio and Ottawa, Canada



HOME OF BEAUTY HOUSE NO. 101

The three views above show Home of Beauty House No. 101, built by Mr. Leslie Welter at Moorhead, Minn. Mr. Welter says: "We are very well pleased with our building experience. A leading architect of Fargo, N. D., said that this house is the best designed and best looking house of any he has seen in this section of the country. Our house created such a favorable impression that several houses have been built of brick in this vicinity this season. I wish to thank you for the excellent service you rendered me at a cost that was practically negligible."

Better Homes

AS THE MANY advantages of the Face Brick house—its supreme beauty, its unmatched durability, its safety from fire and its marked economies—should be available to the average home-builder, to whom the architect is not accessible, the American Face Brick Association has issued various designs for small Face Brick houses, ranging in size from three to eight rooms.

During the last year and a half nearly 100,000 of these plan booklets have been sent out on request and the designs have received enthusiastic endorsement from home-builders in all parts of the country.

"The Home of Beauty" shows fifty houses, mostly two stories, designed by architects in all parts of the country for a national competition. They represent a wide variety of architectural designs and carefully planned interior arrangements. Sent for 50 cents. We have complete working drawings, specifications and quantity estimates for these houses at nominal cost.

"Face Brick Bungalow and Small House Plans" are issued in four booklets, showing 3 to 4-room houses, 5-room houses, 6-room houses, and 7 to 8-room houses, in all ninety-two, each reversible with a different exterior design. These designs are unusual and distinctive, combined with convenient interiors and economical construction. The entire set for one dollar. Any one of the booklets, 25 cents.

We also have the complete working drawings, specifications and masonry quantity estimates at nominal prices. Select from the booklets the designs you like best and order the plans, even if you are not going to build now, for their study will be not only interesting and instructive, but helpful in formulating your future plans for a home.

"The Story of Brick" is an artistic booklet with numerous illustrations and much valuable information for all who intend to build. It discusses in detail the many advantages and economies of the Face Brick house. Sent free. Address, American Face Brick Association, 1121 Westminster Building, Chicago, Ill.

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